

**BEFORE**  
**THE CENTRAL ELECTRICITY REGULATORY COMMISSION**  
**NEW DELHI**

Petition No. \_\_\_ /TT/ \_\_\_

**IN THE MATTER OF: -**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for **Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

---PETITIONER

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.  
Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

---RESPONDENT

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**And others**

**Place:**

Petitioner

**Date:** 30.07.2024

(Zafrul Hasan)  
General Manager (Commercial)



**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

PETITION NO.: .....

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for **Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

---PETITIONER

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.

Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

---RESPONDENT

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**And others**

**INDEX**

Sl. No.	Description	Enclosure No.	Page No.
	Cover Page	-	1
1	Index	-	2-3
2	Letter for registration	-	4-5
3	Memo of Parties	-	6-7
4	Memo of appearance	-	8-9
5	Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block	-	10-24
6	Power of attorney		27



*[Handwritten signature]*

<b>ANNEXURES:</b>			
7	CERC order No. 263/TT/2019 dated 16.06.2021	Encl -1	28-73
8	True up tariff forms for 2019-24 block	Encl -2	74-92
9	Tariff Forms for 2024-29 block along with loan interest proof	Encl -3	93-113
10	Checklist	Encl -4	114-117
11	Supporting affidavit	-	25-26

**FILED BY**  
**POWER GRID CORPORATION OF INDIA LTD.**

**GURGAON**

**DATED: 30.07.2024**

**REPRESENTED BY**

(Zafrul Hasan)  
**General Manager (Commercial)**



**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.:** .....

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

**---PETITIONER**

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.  
Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

**---RESPONDENT**

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**And others**

To  
The Secretary  
Central Electricity Regulatory Commission  
New Delhi 110001

Sir,



The present tariff Petition is filed under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024 and same may be pleased to be registered and taken on record by the Hon'ble Commission.

**FILED BY**  
**POWER GRID CORPORATION OF INDIA LTD.**

**GURGAON**

**DATED: 30.07.2024**

**REPRESENTED BY**

  
**(Zafrul Hasan)**

**General Manager (Commercial)**



**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.: .....**

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

**---PETITIONER**

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.  
Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

**---RESPONDENT**

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**And others**

**MEMO OF PARTIES**

**Power Grid Corporation of India Ltd.**

**--- PETITIONER**

**VERSUS**

**Eastern Region**

**--- RESPONDENTS**

1. Bihar State Power (Holding) Company Limited  
Vidyut Bhawan, Bailey Road,  
Patna - 781001, Assam  
Represented by its Chairman



2. West Bengal State Electricity Distribution Company Limited  
Bidyut Bhawan, Bidhan Nagar,  
Block DJ, Sector-II, Salt Lake City,  
Kolkata - 700 091, West Bengal  
Represented by its Chairman.
3. Grid Corporation Of Orissa Ltd  
Shahid Nagar,  
Bhubaneswar - 751 007, Odisha  
Represented by its Chairman & Managing Director
4. Damodar Valley Corporation  
DVC Tower, Maniktala  
Civic Centre, VIP Road,  
Kolkata - 700 054, West Bengal  
Represented by its Chairman
5. Power Department, Govt. of Sikkim,  
Gangtok – 737 101, Sikkim  
Represented by its Commissioner and Secretary (Power)
6. Jharkhand Bijli Vitran Nigam Ltd  
Engineering Building, H.E.C., Dhurwa,  
Ranchi – 834 004, Jharkhand  
Represented by its Chairman

**GURGAON**

**DATED: 30.07.2024**

**PETITIONER  
POWER GRID CORPORATION OF INDIA LTD.**

**REPRESENTED BY**

**Zafrul Hasan  
General Manager (Commercial)**



**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. ----/TT/----**

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

**---PETITIONER**

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.

Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

**---RESPONDENT**

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

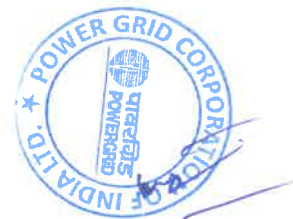
**And others**

**MEMO OF APPEARANCE**

**POWER GRID CORPORATION OF INDIA LTD.**

**-- PETITIONER**

1. Shri Dilip Nagesh Rozekar, ED (Commercial & Regulatory Cell), POWERGRID
2. Shri Mohd. Mohsin, Chief GM (Commercial & Regulatory Cell), POWERGRID
3. Shri V. Srinivas, Chief GM (Commercial & Regulatory Cell)
4. V.C. Sekhar, Sr. GM (Regulatory Cell)
5. **Shri Zafrul Hasan, GM (Commercial), POWERGRID**





I, Zafrul Hasan, the Petitioner above named do hereby nominate to act, plead and appear on my behalf in the aforesaid matter.

IN WITNESS WHEREOF I have set and subscribed my hands to this writing on this 30<sup>th</sup> date of Jul'2024.

**PETITIONER**  
**POWER GRID CORPORATION OF INDIA LTD.**

**GURGAON**  
**DATED: 30.07.2024**

**Zafrul Hasan**  
**General Manager (Commercial)**



**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.:** .....

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block **for Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region** under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**

**---PETITIONER**

Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.  
Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**Bihar State Power (Holding) Company Ltd.**

**---RESPONDENT**

Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**And others**

**A. EXECUTIVE SUMMARY OF THE PETITION:**

**(i) Brief Background of the Petitioner**

1. The Petitioner herein, Power Grid Corporation of India Ltd. (Hereinafter referred to as “**POWERGRID/Petitioner**”) is a Government Company within the meaning of the Companies Act, 2013. POWERGRID is deemed transmission licensee in terms of Section 14 of the Electricity Act, 2003. POWERGRID by virtue of a transmission



licensee is required to inter-alia build, maintain and operate an efficient, coordinated and economical interstate transmission system (“ISTS”). POWERGRID operates and functions within the regulatory control of this Hon’ble Central Electricity Regulatory Commission (hereinafter referred to as “Hon’ble Central Commission”). Tariff for the transmission system established by POWERGRID is required to be determined by this Hon’ble Central Commission in accordance with the Tariff Regulations as notified by this Hon’ble Central Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

**(ii) Brief Background of the Respondent(s):**

POWERGRID has impleaded distribution licensees and Government department of the respective states which are engaged in distribution of electricity in Eastern Region of India. The respondents are also ‘Designated Inter State Transmission Customer’ (hereinafter referred to as ‘DICS’) in terms of the 2020 Sharing Regulations from Eastern region.

**(iii) Background of Transmission Assets:**

2. POWERGRID has filed the present petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for the following Assets which are implemented under “**315 MVA Transformer at Jeypore Sub-station along with associated bays**” in Eastern Region for the following:

Asset No	Asset Name	DOC	Remarks
Asset-I	315 MVA Transformer at Jeypore Sub-station along with associated bays	01.10.2002	-



**(iv) Summary of Claims:**

3. A. POWERGRID is seeking truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for aforesaid transmission assets on capital cost comprising of capital cost incurred/Admitted upto 31.03.2019/DOCO and additional capital expenditure during 2019-24 & 2024-29 in accordance with terms of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (“**Tariff Regulations, 2019**”) and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (“**Tariff Regulations, 2024**”).
4. The details of FR (Feasibility Report) /RCE (Revised Cost Estimate) approved cost vis-à-vis claimed capital cost as on 31.03.2019 and additional capital expenditure during 2019-24 and 2024-29 tariff block is as under:

<b>Tariff Period 2019-24</b>				
				<i>₹ in Lakhs</i>
Asset No.	Apportioned Approved Cost as per FR / RCE	Expenditure Up to DOCO /31.03.2019	Expenditure during 2019-24 tariff block	Actual Cost as on 31.03.2024
			2019-24	
Asset-I	876.00 / NA	709.82	0.00	709.82

<b>Tariff Period 2024-29</b>				
				<i>₹ in Lakhs</i>
Asset No.	Apportioned Approved Cost as per FR / RCE	Expenditure Up to 31.03.2024	Estimated Expenditure during 2024-29 tariff block	Total Estimated Cost as on 31.03.2029
			2024-29	
Asset-I	876.00 / NA	709.82	0.00	709.82



5. It is prayed to hon'ble commission to reimburse expenditure of petition filing fee, license fee, newspaper publication expenses and RLDC fee & charges etc.

6. Details of tariff claimed are as under:

True up annual transmission tariff for 2019-24 tariff block:

Tariff For 2014-19 Block						
₹ in Lakhs						
Asset No	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset	Approved Tariff (approved vide CERC order 263/TT/2019)	220.49	224.52	229.15	234.17	238.94
	Revised tariff (claimed vide instant petition)	220.49	224.53	228.62	233.62	239.51

Tariff For 2019-24 Block					
₹ in Lakhs					
Asset No	2024-25	2025-26	2026-27	2027-28	2028-29
Asset	175.68	181.32	187.73	195.46	188.61

**B. DETAILED PETITION:**

**MOST RESPECTFULLY SHOWETH:**

**Issue wise submission(s):**

7. The Petitioner herein, Power Grid Corporation of India Ltd/ POWERGRID. is a Government Company within the meaning of the Companies Act, 1956. POWERGRID is a deemed transmission licensee under Section 14 of the Electricity Act 2003.



8. POWERGRID being transmission licensee is required to inter-alia build, maintain and operate an efficient, coordinated and economical interstate transmission system (ISTS). The tariff for the said transmission systems shall be determined by the Hon'ble Central Commission in accordance with the Tariff Regulations, 2019 and 2024.
9. That the subject project/petition covers approval of transmission tariff for following Asset:

Asset No	Asset Name	DOCO	Remarks
Asset-1	315 MVA Transformer at Jeypore Sub-station along with associated bays	01.10.2002	Covered under instant petition <i>(Earlier covered under Petition no. 263/TT/2019)</i>

**COST DETAILS:**

10. The capital cost of Rs. 709.82 Lakhs for subject Asset-I has been admitted by Hon'ble commission vide order dated 16.06.2021 in petition no. 263/TT/2019. Copy of order is enclosed as **Encl-1**. In the current petition, no additional capital expenditure was incurred during the 2019-24 tariff block, and no additional capital expenditures are proposed during the 2024-29 tariff block.

**TRANSMISSION TARIFF:**

11. **Transmission tariff:**

The 2019-2024 truing up exercise is to be done at the time of filing tariff petition for next block, i.e. 2024-29 period as per regulation 13 of Tariff Regulation 2019-24.

Regulation 13 of Tariff Regulation 2019-24:



**Quote**

“The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:”

**Unquote**

That the Petitioner is required to adjust the yearly impact of MAT as per regulation 31 (3) of the tariff Regulation 2019-24 period dated 07.03.2019 in the truing up petition for 2019-24 tariff block.

Regulation 31 (3) of the tariff Regulation 2019-24:

**Quote**

The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis

**Unquote**

It is submitted that the Income Tax assessment of the Petitioner has been completed and Assessment Orders has been issued by the Income Tax Department for FY 2019-20 and 2020-21; and that the Income Tax returns have been filed with the Income Tax Department for FY 2021-22 & 2022-23. Further, it is submitted that the Income Tax Return for 2023-24 will be filed in due course.

As such, basis of year wise effective tax rate and Grossed up ROE trued up accordingly for the block period 2019-24 is summarized as under.



Financial Year	Basis considered	Total Tax & Interest paid (Rs)	Assessed MAT Income under Sec 115 JB (Rs)	Effective Tax percentage	Grossed up ROE (Base rate/(1-t))
2019-20	Assessment Order	24,52,62,76,991	1,40,37,47,53,855	17.472%	18.782%
2020-21	Assessment Order	26,08,93,59,008	1,49,32,09,65,036	17.472%	18.782%
2021-22	Actual Tax paid	31,81,46,40,406	1,82,08,92,88,030	17.472%	18.782%
2022-23	Actual Tax paid	30,42,88,20,993	1,74,15,76,29,306	17.472%	18.782%
2023-24	Applicable Rate #		#	17.472%	18.782%

# Based on the applicable rate of MAT @ 15 %, Surcharge @ 12% & Cess @ 4%

The above Effective Tax percentage shall be applied by the petitioner in arriving out the Grossed up ROE rate in all cases of truing up petitions to be filed for the period 2019-24. It is submitted that effective rate of tax considered for FY 2019-20 and 2020-21 are based on Assessment Order issued by Income-Tax authorities, for the purpose of grossing up of ROE rate and that the effective rate of tax considered for F/Y 2021-22 and F/Y 2022-23 are based on the Income-tax returns filed, for the purpose of grossing up of ROE rate of respective years. Further, for F/Y 2023-24, pending filing of ITR, effective tax rate is calculated based the applicable MAT rate (i.e. MAT 15% + Surcharge 12.00% + Cess 4%), for the purpose of grossing up of ROE rate.

The Hon'ble Commission is requested to allow the petitioner to claim the differential tariff on account of the trued up ROE based on effective tax rate calculated on completion of Income-tax assessment/re-assessment for the F/Y 2019-20, 2020-21, 2021-22, 2022-23 and 2023-24 on receipt of the respective assessment orders, directly from the beneficiaries, on year to year basis as provided in the regulation.

In line with the above Regulation, the tariff for each year of the tariff period 2019-24 block has been trued up considering the above Effective Tax percentage to arrive at Grossed up ROE rate.





While filing Tariff petition for 2019-24 period, the petitioner had prayed for allowing the floating rate of Interest on loan adjustments. As per Hon'ble Commission order dated 18.04.2022 in petition no. 26/TT/2021, it has been stated that the weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2019 and accordingly, the floating rate of interest on actual, applicable from time to time, if any, during 2019-24 tariff shall be considered at the time of true up or next revision of tariff.

That in the present petition, truing up of transmission tariff for the tariff block 2019-24 is being carried out on account of actual additional capitalization during 2019-24 tariff block, change in MAT rate as well as floating rate of interest during 2019-24.

12. The trued up annual transmission tariff for the tariff period 2019-24 is summarized as below:

<b>Truing-Up Tariff For 2014-19 Block</b>						
						<i>₹ in Lakhs</i>
<b>Asset No</b>	<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Asset-I	Approved Tariff (approved vide CERC order 263/TT/2019)	220.49	224.52	229.15	234.17	238.94
	Revised tariff (claimed vide instant petition)	220.49	224.53	228.62	233.62	239.51

Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-2**.

That in the subject petition, details are provided in various Tariff Forms with respect to Capital Cost as per books / Gross Block amount as per Books. It is submitted that the petitioner has opted for deemed cost exemption as per Para D7 AA of Ind AS 101 'First-time Adoption of Indian Accounting Standards'. Accordingly Carrying value i.e. Gross Block less Accumulated Depreciation is considered as deemed cost as on the date of transition i.e. 1st April 2015. As such, in case of assets commissioned before



01.04.2015, the accumulated depreciation as on 1st April 2015 is added back to the deemed Capital Cost as per books / Gross Block amount as per Books for arriving at the figures to be provided in various Tariff Forms.

13. The tariff for 2024-29 tariff block is summarized below:

Tariff For 2019-24 Block					
					₹ in Lakhs
Asset No	2024-25	2025-26	2026-27	2027-28	2028-29
Asset	175.68	181.32	187.73	195.46	188.61

Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-3**.

14. The asset has already completed in tariff block 2014-19 and the remaining depreciation has been spread over the balance useful life of the asset as per clause 33(5) of the CERC tariff Regulation 2024. Further, the details have been computed and are provided in Form- 10 A.
15. That, it is submitted that the petitioner is currently liable to pay income tax at MAT rate specified in Income-tax Act,1961. Therefore, ROE has been calculated @ 18.782% after grossing up the ROE with MAT rate of 17.472% ( Base Rate 15% + Surcharge 12% + Cess 4%) based on the formula given at regulation 31 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 2024-29 period. That as per clause 31 (3) of the above regulation, the grossed up rate of ROE at the end of every financial year shall be trued up based on actual tax paid together with any additional tax demand including interest thereon duly adjusted for any refund of tax including interest received from the IT authorities pertaining to the tariff period 2024-29 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on ROE after truing up



shall be recovered or refunded to beneficiaries or the long term customers, as the case may be on year to year basis. It is further submitted that adjustment due to any additional tax demand including interest duly adjusted for any refund of tax including interest received from IT authorities shall be recoverable /adjustable during the tariff period 2024-29 on year to year basis on receipt of Income Tax assessment order.

16. Under CGST Act, 2017 implemented w.e.f. 01.07.2017, the Govt. of India has exempted the charges of transmission of electricity vide notification no. 12/2017 – Central Tax (Rate) dated 28.06.2017 at serial no. 25 under the heading 9969 “Transmission or distribution of electricity by an electric transmission or distribution utility” by giving applicable GST rate as NIL. Hence, the Transmission Charges as indicated at para 12 above is exclusive of GST. Further, if GST is levied at any rate and at any point of time in future on Charges of Transmission of Electricity, the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged & billed separately by the petitioner. Further additional taxes, if any, are to be paid by the petitioner on account of demand from Govt. / Statutory authorities, the same may be allowed to be recovered from the beneficiaries.
17. In the tariff calculation for 2019-24 period, Interest on Loan has been calculated on the basis of actual rate of interest of various loans deployed for each year. In the tariff calculation for 2024-29 period, Interest on Loan has been calculated on the basis of interest rates prevailing as on 01.04.2024 for respective loans. The change in Interest rate due to floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries.

For the purpose of the supporting documents for rate of interest, a compendium of floating rate of interest of various loans during the tariff period 2019-24 shall be submitted shortly before the Hon’ble Commission.

18. The transmission charges at para-12 & 13 above is inclusive of O&M expenses derived for the subject asset based on the norms for O&M expenditure for Transmission System as specified under regulation 36 (3) (a) of the tariff regulations for block 2024-29.



19. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than Rs. 10 Lakh for transmission system shall be allowed separately after prudence check.

**SECURITY EXPANSES:**

In this regard, it is submitted that a separate petition shall be filed for truing up of security expenses from 01.04.2019 to 31.03.2024 under the Regulation 35 (3) (C) of Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and recovery of security expenses from 01.04.2024 to 31.03.2029 under the Regulation 36 (3) (d) of Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**INSURANCE:**

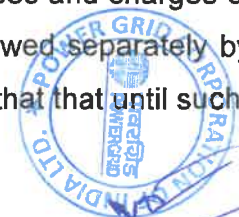
In this regard, it is submitted that a separate petition shall be filed before Hon'ble Commission for claiming the overall Insurance Expenses and consequential Interest on Working Capital (IOWC) on the same considering actual Insurance Expense incurred by the Petitioner for the F/Y 2023-24 after escalating the same at 5.25% per annum for arriving at the Estimated Insurance Expense for the year 2024-25, 2025-26, 2026-27, 2027-28 and 2028-29.

**CAPITAL SPARE:**

With regard to Capital Spares, the Petitioner has filed a separate Petition bearing No 45/MP/2024 for claiming the capital spares under Tariff Regulations 2019. Further, as per Tariff Regulations, 2024, Capital spares consumed and consequential Interest on Working Capital (IOWC) on the same shall be claimed by the Petitioner as per actual through a separate petition.

Accordingly, these expenses are not claimed in the subject petition through the relevant Tariff Form and shall be claimed separately.

20. That as per Regulation 99 of CERC Tariff Regulations, 2024, the fees and charges of Central Transmission Utility of India Limited ('CTUIL') shall be allowed separately by the Commission through a separate regulation. Further, it provides that that until such



regulation is issued by the Commission, the expenses of CTUIL shall be borne by POWERGRID which shall be recovered by POWERGRID as additional O&M expenses through a separate petition.

Accordingly, the expenses of CTUIL borne by POWERGRID shall be claimed through a separate petition.

21. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time shall also be recoverable from the DICs as provided under clause 94 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
  
22. The Transmission Charges and other related Charges indicated at para 12 & 13 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges, capital spares, security expenses, insurance expenses or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

**SHARING OF TRANSMISSION CHARGES:**

23. Transmission Tariff for 2019-24 as per above, shall be recovered as per Regulation 57 of CERC Tariff Regulations, 2019 and CERC Sharing Regulations, in vogue. Transmission Tariff for 2024-29 as per above, shall be recovered as per Regulation 78 of CERC Tariff Regulations, 2024 and CERC Sharing Regulations, in vogue.



24. In the circumstances mentioned above it will be just and proper that the transmission tariff for the asset covered under this petition be allowed to be charged from the beneficiaries on the basis set out above. **The Petitioner submits that Encl.-1 to Encl.-3 may please be treated as integral part of this petition.**

**PRAYER:**

25. **PRAYER**

It is respectfully prayed that the Hon'ble Commission may be pleased to

- a) Approve the trued-up Transmission Tariff for 2019-24 block and transmission tariff for 2024-29 block for the assets covered under this petition, as per para 12 and 13 above.
- b) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2019 and Tariff regulations 2024 as per para 12 and 13 above for respective block.
- Further it is submitted that deferred tax liability before 01.04.2009 shall be recoverable from the beneficiaries or long term customers / DIC as the case may be, as and when the same is materialized as per regulation 67 of 2019 and regulation 89 of 2024 tariff regulation. The petitioner may be allow to recover the deferred tax liability materialized directly without making any application before the commission as provided in the regulations.
- c) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 94 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, and other expenditure ( if any) in relation to the filing of petition.
- d) Allow the petitioner to bill and recover Licensee fee and RLDC fees & charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.



- e) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2024-29 period, if any, from the respondents.
- f) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 19 above.
- g) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall insurance expenses and consequential IOWC on that insurance expenses as mentioned at para 19 above.
- h) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 19 above.
- i) Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition as mentioned at para 20 above.
- j) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice



GURGAON

DATED: 30.07.2024

FILED BY  
POWER GRID CORPORATION OF INDIA LTD.

REPRESENTED BY



Zafrul Hasan  
General Manager (Commercial)





**BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.:** .....

**IN THE MATTER OF:**

**Subject matter:** Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Asset under “315 MVA Transformer at Jeypore Sub-station along with associated bays” in Eastern Region under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

**Power Grid Corporation of India Ltd.**  
Registered office: B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi. - 110 016.  
Corporate Centre: 'SAUDAMINI', Plot No-2,  
Sector-29, Gurgaon-122 001, Haryana.

**---PETITIONER**

**Bihar State Power (Holding) Company Ltd.**  
Vidyut Bhavan, Bailey Road,  
Patna – 800 001, Bihar.  
Represented by its Chairman

**---RESPONDENT**

**And others**

**AFFIDAVIT VERIFYING THE PETITION**

I, Zafrul Hasan, S/O Late Shri Zahurul Hasan, working as General Manager (Commercial) in the Powergrid Corporation of India Ltd., having its registered Office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under: -

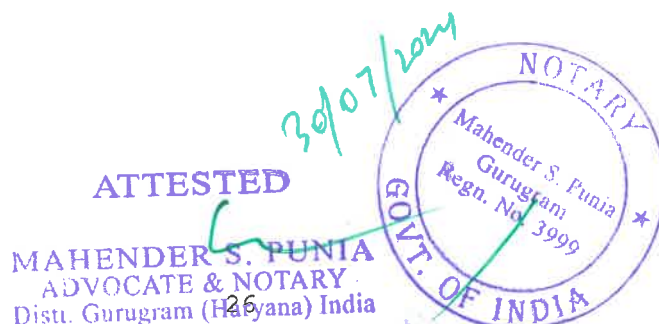


1. That the deponent is the General Manager of Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.
2. That the accompanying Petition under Section 62 of the Electricity Act, 2003, has been filed by my authorised representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the contents of Para 01 to 25 of the facts as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 25 of the Petition are believed to be true on the basis of the legal advice received.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute



#### VERIFICATION

Solemnly affirmed at Gurgaon on this 30<sup>th</sup> day of Jul'2024 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.



पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
केन्द्रीय वाणिज्यिक विभाग

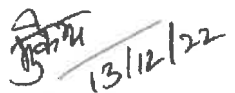
Ref: CC/Commercial/2022

Date:-13.12.2022

LETTER OF AUTHORIZATION

Pursuant to the POWER OF ATTORNEY dated 08.12.2022 and in supersession of the letters of authorization dated 19.07.2022, I hereby authorize the following Executives to sign on Vakalatnama, Affidavits and to appear and conduct case proceedings on behalf of the company before CERC, SERC, APTEL, High Courts and Supreme Court.

1. Sh. S.S Raju, CGM (Commercial)
2. Sh. V. Srinivas, CGM (Commercial - BCD)
3. Sh. Mohd Mohsin, Sr. GM (Commercial)
4. Sh. Bipin Bihari Rath, Sr.GM (Commercial)
5. Sh. V.C Shekhar, GM (Regulatory Cell)
6. Sh. Zafrul Hasan, Sr. DGM (Commercial)

  
13/12/22  
Mukesh Khanna

ED (Commercial &RC)



केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सेक्टर-29, गुरुग्राम-122001, (हरियाणा), दूरभाष : 0124-2571700-719  
Corporate Office : "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel. : 0124-2571700-719

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 011-26560112, 26564812, 26564812, 26564892, सीआईएन : L40101DL1989GOI038121  
Registered Office : B-9, Qutab Institution Area, Katwaria Sarai, New Delhi-110016. Tel.: 011-26560112, 26564812, 26564812, 26564892, CIN : L40101DL1989GOI038121  
Website : www.powergridindia.com

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 263/TT/2019**

**Coram:**

**Shri P. K. Pujari, Chairperson  
Shri I. S. Jha, Member  
Shri Arun Goyal, Member  
Shri Pravas Kumar Singh, Member**

**Date of order : 16.06.2021**

**In the matter of:**

Approval under Regulation 86 of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and revision of transmission tariff of the 2001-04, 2004-09 and 2009-14 tariff periods and truing up of transmission tariff of the 2014-19 period under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and determination of transmission tariff of the 2019-24 period under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region.

**And in the matter of:**

Power Grid Corporation of India Ltd.,  
"Saudamini", Plot No-2,  
Sector-29, Gurgaon-122001,  
(Haryana).

.....Petitioner

**Versus**

1. Bihar State Power (Holding) Company Ltd.,  
(Formerly Bihar State Electricity Board -BSEB),  
Vidyut Bhavan, Bailey Road, Patna – 800001.
2. West Bengal State Electricity Distribution Company Ltd.,  
Bidyut Bhawan, Bidhan Nagar,  
Block DJ, Sector-II, Salt Lake City,  
Calcutta – 700091.
3. Grid Corporation of Orissa Ltd.,  
Shahid Nagar, Bhubaneswar – 751007.
4. Jharkhand State Electricity Board,  
In front of Main Secretariat,  
Doranda, Ranchi – 834002.



Order in Petition No.263/TT/2019

*Page 28 of 73*  
**ATTESTED TRUE COPY**  
Authorised Signatory  
Power Grid Corporation of India Ltd  
No. 2, Sector-29, Gurgaon-122001 (Haryana)

5. Damodar Valley Corporation,  
DVC Tower, Maniktala,  
Civic Centre, VIP Road, Calcutta – 700054.

6. Power Department,  
Government of Sikkim,  
Gangtok – 737101.  
...Respondent(s)

**For Petitioner:** Shri S. S. Raju, PGCIL  
Shri A. K. Verma, PGCIL  
Shri B. Dash, PGCIL  
Shri Ved Prakash Rastogi, PGCIL

**For Respondents:** None

### ORDER

The instant petition has been filed by Power Grid Corporation of India Limited, a deemed transmission licensee, for revision of transmission tariff of the 2001-04, 2004-09 and 2009-14 tariff periods and truing up of transmission tariff of the 2014-19 tariff period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as “the 2014 Tariff Regulations”) and for determination of tariff for the 2019-24 tariff period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as “the 2019 Tariff Regulations”) in respect of the following transmission asset in Eastern Region:

315 MVA Transformer at Jeypore Sub-station along with associated bays

2. The Petitioner has made the following prayers in this petition:

*“1) Approve the revised Transmission Tariff for 2001-04 block, 2004-09 block and transmission tariff for 2009-14 block for the asset covered under this petition, as per para 8 above.*

*2) Approve the trued up Transmission Tariff for 2014-19 block and transmission tariff for 2019-24 block for the assets covered under this petition, as per para 9 and 10 above.*



3) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2014 and Tariff regulations 2019 as per para 9 and 10 above for respective block.

4) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 70 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, and other expenditure ( if any) in relation to the filing of petition

5) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the respondents in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.

6) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2019-24 period, if any, from the respondents.

7) Allow the petitioner to recover FERV on the foreign loans deployed as provided under clause 68 of the tariff regulations, 2019.

8) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 10.5 above.

9) Allow the petitioner to claim the capital spares at the end of tariff block as per actual.

10) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice."

### **Backdrop of the case**

3. The brief facts of the case are as follows:

(a) The Investment Approval (I.A.) for the transmission asset was accorded by the Board of Directors of PGCIL vide letter dated 2.11.1999 at an estimated cost of ₹876 lakh including IDC of ₹79 lakh based on 3<sup>rd</sup> quarter, 1998 price level.



Order in Petition No.263/TT/2019



Page 3 of 46

(b) The entire scope of work as per the I.A. has been covered in the instant petition as it comprises single transmission asset, namely, 315MVA Transformer at Jeypore Sub-station along with associated bays. The transmission asset was put under commercial operation on 1.10.2002.

(c) The transmission tariff for the transmission asset from COD to 31.3.2004 was allowed vide order dated 9.3.2005 in Petition No. 139/2002.

(d) The tariff for the transmission asset from 1.4.2004 to 31.3.2009 was allowed vide order dated 27.1.2006 in Petition No.50/2005. ACE of ₹9.58 lakh incurred during 2001-04 tariff period and decapitalization of ₹47.49 lakh on account of FERV had been allowed vide order dated 27.1.2006 in Petition No. 50/2005.

(e) The transmission tariff for the transmission asset from 1.4.2009 to 31.3.2014 was allowed vide order dated 4.11.2010 in Petition No. 125/2010. Further, the tariff for the 2009-14 period was trued-up and tariff for the period from 1.4.2014 to 31.3.2019 was allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014.

(f) The Petitioner has sought revision of transmission tariff allowed for the 2001-04 and 2004-09 tariff periods on account of change in Interest on Loan (IoL) and Interest on Working Capital (IWC) to the extent of revision in IoL and in Maintenance Spares in terms of the judgments of the APTEL dated 22.1.2007 and 13.6.2007 in Appeal Nos. 81/2005 and 139/2006 respectively. The Petitioner has sought consequential revision of tariff allowed for the 2009-14 tariff period and truing up of tariff of 2014-19 tariff period and determination of transmission tariff for 2019-24 tariff period for the transmission asset.

(g) APTEL, vide judgements dated 22.1.2007 in Appeal No.81/2005 and other related Appeals, and judgement dated 13.6.2007 in Appeal No. 139/2006 pertaining to generating stations of NTPC has considered four issues and upheld the Commission's decision in some of the issues. The issues considered by APTEL and its decision are as given in the following table:



Sr. No.	Issue	APTEL's decision/direction
1	Whether APTEL can enquire into the validity of Regulations framed by the Commission	Challenge to the validity of Regulations framed by the Commission falls outside the purview of APTEL.
2	Computation of interest on loan	In view of the order of the APTEL dated 14.11.2016 in Appeal No. 94 of 2005 and Appeal No. 96 of 2005 and order dated 24.1.2007 passed in Appeal Nos. 81 to 87, 89 to 93 of 2005, computation of loan has to be based on loan repayment on normative basis. Commission is required to recalculate the loan outstanding as on 31.3.2004 based on loan repayment on normative basis.
3(a)	O&M Expenses: Inadequate provision of employee costs as part of O&M Expenses due to variation in salary and wages	Commission's view upheld
3(b)	O&M Expenses: Non-inclusion of incentives and ex-gratia payment to employees	Commission's view upheld
4	Cost of spares for calculation of working capital	Commission's view upheld

(h) APTEL in its judgment dated 13.6.2007 in Appeal No. 139 of 2006 and batch matters pertaining to generating stations of NTPC had considered 9 issues. Some of the issues considered pertain purely to generating stations. The issues considered and the decision of APTEL are given in the following table:

Sr. No.	Issue	APTEL's decision/direction
I	Computation of outstanding loan at the beginning of the tariff period i.e. 1.4.2004.	The Commission is required to recalculate the loan outstanding as on 31.3.2004 based on loan repayment on normative basis.
II	Consequence of refinance of loan.	Commission to consider the issue afresh.
III	Treating depreciation available as deemed repayment of loan.	Commission to make a fresh computation of outstanding loan.
IV	Admissibility of depreciation up to 90%.	Commission to consider the issue afresh.
V	Cost of Maintenance Spares.	Commission to consider the issue afresh.
VI	Impact of de-capitalisation of the assets on cumulative repayment of Loan.	The cumulative repayment of the loan proportionate to the assets decapitalized required to be reduced. Commission to act accordingly.
VII	Non-consideration of normative transit loss for coal import.	Commission to consider afresh the transit losses for coal imported from coal mines other than the dedicated ones.





VIII	Foreign Exchange rate variation (FERV).	FERV has been kept as pass through to ensure that any liability or gain, if any, arising on account of any variation in foreign exchange rates is passed on to the beneficiary as held in order dated 4.10.2006 in Appeal No.135 to 140 of 2005. Commission to act accordingly.
IX	Computation of interest on loan in Singrauli Station.	Net loan closing at the end of a year is reflected as net loan opening on the first day of the next year. Commission shall re-compute the interest accordingly.

(i) The Commission and certain interested parties preferred Civil Appeals against the APTEL's judgments before the Hon'ble Supreme Court of India in 2007. The Appeals were admitted and initially a stay was granted by the Hon'ble Supreme Court. Subsequently, on an assurance by NTPC that the issues under Appeal would not be pressed for implementation during the pendency of the Appeals, the stay was vacated by the Hon'ble Supreme Court.

(j) Based on the APTEL's judgments dated 22.1.2007 and 13.6.2007, the Petitioner sought re-determination of tariff of its transmission assets for the 2001-04 and 2004-09 tariff periods vide Petition No. 121/2007. The Commission after taking into consideration the pendency of Appeals before the Hon'ble Supreme Court adjourned the said petition *sine die* and directed that the same be revived after the disposal of Civil Appeals by the Hon'ble Supreme Court.

(k) The Hon'ble Supreme Court vide order dated 10.4.2018, dismissed the said civil appeals. Thus, the said order of the APTEL has attained finality.

(l) Consequent to the Hon'ble Supreme Court's order dated 10.4.2018, Petition No. 121/2007 was listed for hearing before the Commission on 8.1.2019. The Commission, vide order dated 18.1.2019 in Petition No. 121/2007, directed the Petitioner to submit its claim separately for the asset at the time of filing of truing up of the petitions for the 2014-19 tariff period in respect of the concerned transmission assets.

(m) Accordingly, the Petitioner has sought revision of transmission tariff approved for the 2004-09 tariff period on account of change in IoL and IWC to



the extent of revision in IoL and in Maintenance Spares in terms of the APTEL's judgements dated 22.1.2007 and 13.6.2007.

(n) The instant petition was heard on 6.4.2021 and in view of APTEL's judgments dated 22.1.2007 in Appeal No. 81/2005 and batch matters along with order dated 13.6.2007 in Appeal No. 139/2006 and batch matters and the order of Hon'ble Supreme Court dated 10.4.2018, transmission tariff is being revised. Although, period wise transmission tariff is being re-worked based on the Tariff Regulations applicable for the respective tariff periods, suitable assumptions at certain places, if required, are being applied which are indicated.

(o) The transmission asset was put under commercial operation on 1.10.2002. The tariff for the transmission asset during 2001-04, 2004-09 and 2009-14 periods was worked out based on the admitted capital cost of the transmission asset as on COD and ACE admitted during the respective tariff periods. Accordingly, considering the admitted capital cost as on COD and admitted ACE, tariff is being revised for 2001-04, 2004-09 and 2009-14 periods. The details of admitted capital cost as on COD and admitted ACE in respect of the transmission asset are follows:

(₹ In lakh)		
Admitted Expenditure up to COD	Additional Capital Expenditure	Admitted Capital Cost as on 31.3.2004
	2001-04	
747.73	9.58	757.31

(p) The instant petition was heard on 6.4.2021 and in view of APTEL's judgments dated 22.1.2007 and 13.6.2007 and the order of Hon'ble Supreme Court dated 10.4.2018, tariff is being revised. Period-wise transmission tariff is being re-worked based on the Tariff Regulations applicable for the respective tariff periods and suitable assumptions have been made at certain places and applied, which are indicated.



4. The Respondents are transmission utilities, distribution licensees and power departments who are procuring transmission services from the Petitioner, mainly beneficiaries of the Eastern Region.

5. The Petitioner has served the petition on the Respondents and notice regarding filing of this petition has been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or objections have been received from the general public in response to the aforesaid notices published in the newspapers. Bihar State Power (Holding) Company Ltd. (BSPHCL), i.e., Respondent No. 1 has submitted its reply vide affidavit dated 5.11.2020 and has raised issues like grossing up of RoE, prudence check, recovery of statutory charges, floating rate of interest and filing fees. In response, the Petitioner has filed its rejoinder dated 1.4.2021.

6. This order is issued considering the submissions made in the petition and affidavit of the Petitioner dated 30.7.2020, BSPHCL's reply dated 5.11.2020 and Petitioner's rejoinder dated 1.4.2021.

7. Having heard the representatives of the Petitioner and after careful perusal of the material on record, we proceed to dispose of the petition.

**Re: Interest on Loan (IoL)**

8. APTEL while dealing with the issue of computation of IoL, in judgment dated 22.1.2007 in Appeal No. 81/2005 and batch matters, observed that IoL for the period from 1.4.1998 to 31.3.2001 shall be computed only on normative loan repayment as per its judgment dated 14.11.2006 in Appeal No. 94 of 2005 and Appeal No. 96 of 2005. APTEL vide its judgment dated 14.11.2006 in Appeal No. 94 of 2005 and



Appeal No. 96 of 2005 set aside the Commission's methodology of computation of loan on the actual repayment basis or normative repayment whichever is higher and held that the Commission is required to adopt normative debt repayment methodology for working out the IoL liability for the period from 1.4.1998 to 31.3.2001. In view of the judgement of APTEL, interest allowed for 2001-04 and 2004-09 period is to be revised on the basis of the normative debt repayment methodology.

**Re: Additional Capital Expenditure**

9. APTEL in its judgment dated 13.6.2007 in Appeal No.139 of 2006 and batch matters held that ACE after COD should also be considered for computation of maintenance spares. In view of the judgement of APTEL, maintenance spares to be considered for computation of working capital for 2001-04 and 2004-09 period are also required to be revised taking into consideration ACE after COD.

**Re: Depreciation**

10. As regards depreciation, APTEL in its judgment dated 13.6.2007 in Appeal No.139 of 2006 and batch matters observed that depreciation is an expense and it cannot be deployed for deemed repayment of loan and accordingly directed the Commission to compute the outstanding loan afresh. Accordingly, the outstanding loan allowed for the transmission assets for 2001-04 and 2004-09 period is revised in the instant order.

11. The revision of transmission tariff allowed for the 2001-04 and 2004-09 tariff period necessitates the revision of tariff allowed for the 2009-14 tariff period, which is also allowed in the present order. The implementation of the directions of the APTEL in case of the Petitioner remained pending awaiting for the outcome of the



Civil Appeals filed before the Hon'ble Supreme Court. Taking into consideration the facts of the case and keeping in view the interest of the consumers, we are of the view that the beneficiaries should not be burdened with the carrying cost for the difference in the tariff allowed earlier and allowed in the instant order for the 2001-04, 2004-09 and 2009-14 tariff periods. Therefore, the Petitioner is directed not to claim or pay any carrying cost from the beneficiaries for the difference, if any, in the tariff allowed earlier and that allowed in the present order. Further, the said difference in tariff shall be recovered/ paid over a period of six months from the date of issue of this order.

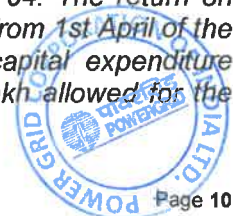
### **Revision of Transmission Charges for the 2001-04, 2004-09 and 2009-14 Tariff Periods**

#### **2001-04 Tariff Period**

12. The Commission vide order dated 9.3.2005 in Petition No. 139/2002 had approved transmission charges for the transmission asset for the 2001-04 period, without taking into account the ACE during the 2001-04 period. Subsequently, the Petitioner filed IA No. 69/2005 in Petition No. 50/2005 claiming ACE of ₹9.58 lakh incurred during 2002-03. The Commission vide order dated 27.1.2006 allowed capitalisation of ₹176.04 lakh for the year 2002-03. The relevant portions of the order dated 27.1.2006 in Petition No.50/2005 are extracted hereunder:

#### ***"Impact of additional capitalization for the years 2001-04***

*39. In the petitions filed by NTPC for approval of revised fixed charges for additional capitalization for the period 1.4.2001 to 31.3.2004, the Commission has decided that additional capital expenditure be added to the gross block as on 1.4.2001 to arrive at gross block as on 1.4.2004 for the purpose of fixation of tariff for the period 2004-05 to 2008-09. The Commission has further ordered that NTPC would be entitled to earn return on equity @ 16% on equity portion of additional capitalization approved and interest on loan at the rate as applicable during 2001-02 to 2003-04. The return on equity and interest on loan are payable on additional capitalization from 1st April of the financial year following the financial year to which additional capital expenditure relates. The entire amount of additional capitalization of ₹9.58 lakh allowed for the*



year 2002-03 has been considered as equity. Accordingly, the petitioner shall be entitled to recover ROE of ₹1.53 lakh from 1.4.2003 to 31.3.2004 on additional equity of ₹9.58 lakh.”

13. The transmission charges approved for the 2001-04 period vide order dated 9.3.2005 in Petition No.139/2002 and further revised vide order dated 27.1.2006 in Petition No. 50/2005 on account of ACE during 2002-03 are as follows:

Particulars	(₹ in lakh)	
	2002-03	2003-04
Depreciation	13.46	26.92
Return on Equity	7.03	15.59
O&M Expenses	16.77	35.56
Advance against Depreciation	0.00	0.00
Interest on Loan	27.56	54.32
Interest on Working Capital	1.37	2.78
<b>Total</b>	<b>66.19</b>	<b>135.17</b>

14. The Petitioner has claimed the following revised transmission charges for the transmission asset for the 2001-04 period in this petition:

Particular	(₹ in lakh)	
	2002-03	2003-04
Depreciation	13.46	26.92
Return on Equity	7.03	15.59
O&M Expenses	16.77	35.56
Advance against Depreciation	0.00	0.00
Interest on Loan	27.56	54.32
Interest on Working Capital	1.37	2.78
<b>Total</b>	<b>66.19</b>	<b>135.17</b>

15. The Petitioner has claimed that the transmission tariff for the 2001-04 period as on COD was approved by the Commission vide order dated 9.3.2005 in Petition No. 139/2002 as ₹747.73 lakh. The Petitioner submitted that the ACE incurred during 2001-04 period and FERV impact has been approved by the Commission vide order dated 27.1.2006 in Petition No.50/2005 for the 2004-09 tariff period since ACE was less than 20% of approved cost but the same was incurred during 2001-04 period.



16. We have considered the Petitioner's submission and perused the order dated 27.1.2006 in Petition No. 50/2005. We find that ACE for year 2002-03 in the said order has been limited for the purposes of RoE only and has been allowed in the following financial year i.e. 2003-04. The tariff is allowed for the transmission asset on the basis of the following:

- a) Admitted capital cost of ₹747.73 lakh as on COD of the transmission asset;
- b) Weighted Average Rate of Interest on actual loan, Weighted Average, Rate of Depreciation, Rate of Interest for Working Capital and O&M Expenses as per order dated 9.3.2005 in Petition No. 139/2002.

17. In view of the above, the revised transmission charges allowed for the transmission asset for the 2001-04 tariff period are as follows:

Particulars	₹ in lakh	
	2002-03	2003-04
Depreciation	13.46	26.92
Return on Equity	7.03	15.59
O&M Expenses	16.77	35.56
Advance against Depreciation	0.00	0.00
Interest on Loan	27.56	54.32
Interest on Working Capital	1.37	2.80
<b>Total</b>	<b>66.18</b>	<b>135.19</b>

18. The Annual Fixed Charges (AFC) allowed for 2001-04 tariff period vide order dated 9.3.2005 in Petition No. 139/2002, the revised AFC claimed in the instant petition and AFC allowed in the instant order are as follows:

Particulars	₹ in lakh	
	2002-03	2003-04
AFC allowed vide order dated 9.3.2005 in Petition No. 139/2002	66.19	135.17
AFC claimed by the Petitioner in the instant petition	66.19	135.17
AFC approved in the instant order	66.18	135.19

#### **2004-09 Tariff Period**

19. The Commission vide order dated 27.1.2006 in Petition No.50/2005 had approved transmission charges for the transmission asset for the 2004-09 tariff



Order in Petition No.263/TT/2019



Page 12 of 46

period. The Petitioner has claimed tariff based on capital cost of ₹709.82 after accounting for ACE of ₹9.58 lakh incurred during the 2001-04 tariff period and decapitalization of ₹47.49 lakh on account of FERV. The transmission charges allowed for the 2004-09 tariff period vide order dated 27.1.2006 in Petition No. 50/2005 are as follows:

(₹ in lakh)					
Particular	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	25.55	25.55	25.55	25.55	25.55
Return on Equity	13.64	13.64	13.64	13.64	13.64
O&M Expenses	56.24	58.50	60.84	63.26	65.80
Advance against Depreciation	0.00	11.54	15.87	19.06	22.57
Interest on Loan	46.70	43.46	40.02	36.35	32.43
Interest on Working Capital	3.81	4.06	4.20	4.31	4.43
<b>Total</b>	<b>145.94</b>	<b>156.75</b>	<b>160.12</b>	<b>162.17</b>	<b>164.42</b>

20. The Petitioner has claimed the following revised transmission charges for the transmission asset for the 2004-09 tariff period in this petition:

(₹ in lakh)					
Particulars	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	25.55	25.55	25.55	25.55	25.55
Return on Equity	13.64	13.64	13.64	13.64	13.64
O&M Expenses	56.24	58.50	60.84	63.26	65.80
Advance against Depreciation	0.00	2.48	11.53	14.24	17.39
Interest on Loan	46.85	43.95	40.85	37.55	34.03
Interest on Working Capital	3.85	3.95	4.17	4.29	4.41
<b>Total</b>	<b>146.13</b>	<b>148.07</b>	<b>156.59</b>	<b>158.52</b>	<b>160.82</b>

21. We have considered the Petitioner's claim. The transmission tariff is allowed for the transmission asset on the basis of the following:

- a) Admitted capital cost of ₹709.82 lakh as on 1.4.2004 for the transmission asset;
- b) ACE of ₹9.58 lakh during 2004-09 period and decapitalization of ₹47.49 lakh on account of FERV has been approved vide order dated 27.1.2006 in Petition No. 50/2005;
- c) Weighted Average Rate of Interest on actual loan adopted from order dated 27.1.2006 in Petition No.50/2005; and





d) Weighted Average Rate of Depreciation, Rate of Interest for Working Capital and O&M Expenses as per order dated 27.1.2006 in Petition No.50/2005.

22. In view of the above, the revised transmission charges approved for the transmission asset for the 2004-09 tariff period are as follows:

(₹ in lakh)					
Particular	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	25.55	25.55	25.55	25.55	25.55
Return on Equity	13.64	13.64	13.64	13.64	13.64
O&M Expenses	56.24	58.50	60.84	63.26	65.80
Advance against Depreciation	0.00	2.48	11.53	14.23	17.38
Interest on Loan	46.85	43.95	40.85	37.55	34.03
Interest on Working Capital	3.82	3.93	4.15	4.26	4.38
<b>Total</b>	<b>146.11</b>	<b>148.04</b>	<b>156.56</b>	<b>158.49</b>	<b>160.79</b>

23. The Annual Fixed Charges (AFC) allowed for 2004-09 tariff period vide order dated 27.1.2006 in Petition No.50/2005, the revised AFC claimed in the instant petition and AFC allowed in the instant order are as follows:

(₹ in lakh)					
Particulars	2004-05	2005-06	2006-07	2007-08	2008-09
AFC allowed vide order dated 27.1.2006 in Petition No.50/2005	145.94	156.75	160.12	162.17	164.42
AFC claimed by the Petitioner in the instant petition	146.13	148.07	156.59	158.52	160.82
AFC approved in the instant order	146.11	148.04	156.56	158.49	160.79

### **2009-14 Tariff Period**

24. The Commission vide order dated 4.11.2010 in Petition No.125/2010 had allowed the tariff for the transmission asset for the 2009-14 tariff period and vide order dated 8.1.2016 in Petition No.223/TT/2014 had trued-up the tariff allowed for the 2009-14 period that was earlier allowed in order dated 4.11.2010 and the same is as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	37.48	37.48	37.48	37.48	37.48



Interest on Loan	24.76	19.53	16.89	15.15	13.69
Return on equity	18.19	18.86	18.88	18.88	19.11
Interest on Working Capital	6.13	6.29	6.51	6.76	7.03
O & M Expenses	89.08	94.18	99.57	105.26	111.28
<b>Total</b>	<b>175.64</b>	<b>176.34</b>	<b>179.33</b>	<b>183.53</b>	<b>188.59</b>

25. The Petitioner has claimed the following revised transmission charges for the transmission asset for the 2009-14 period in this petition:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	37.48	37.48	37.48	37.48	37.48
Interest on Loan	26.31	20.90	18.22	16.53	15.17
Return on equity	18.19	18.86	18.88	18.88	19.11
Interest on Working Capital	6.16	6.32	6.54	6.78	7.06
O & M Expenses	89.08	94.18	99.57	105.26	111.28
<b>Total</b>	<b>177.22</b>	<b>177.74</b>	<b>180.69</b>	<b>184.93</b>	<b>190.10</b>

26. We have considered the Petitioner's claim. The tariff is approved for the transmission asset on the basis of the following:

- a) Admitted capital cost of ₹709.82 lakh for the transmission asset as on 1.4.2009;
- b) No ACE during 2009-14 period;
- c) Weighted Average Rate of Interest on actual loan derived/adopted from Order dated 8.1.2016 in Petition No.223/TT/2014; and
- d) Weighted Average Rate of Depreciation as per order dated 8.1.2016 in Petition No. 223/TT/2014.

27. In view of the above, the revised transmission charges allowed for the transmission asset for the 2009-14 tariff period are as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	37.48	37.48	37.48	37.48	37.48
Interest on Loan	26.31	20.90	18.22	16.53	15.17
Return on equity	18.19	18.86	18.88	18.88	19.11
Interest on Working Capital	6.16	6.32	6.54	6.78	7.06
O & M Expenses	89.08	94.18	99.57	105.26	111.28
<b>Total</b>	<b>177.23</b>	<b>177.73</b>	<b>180.68</b>	<b>184.93</b>	<b>190.09</b>



28. The Annual Fixed Charges (AFC) allowed for 2009-14 tariff period vide order dated 8.1.2016 in Petition No. 223/TT/2014, the revised AFC claimed in the instant petition and AFC approved in the instant order are as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
AFC allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	175.64	176.34	179.33	183.53	188.59
AFC claimed by the Petitioner in the instant petition	177.22	177.74	180.69	184.93	190.10
AFC approved in the instant order	177.23	177.73	180.68	184.93	190.09

#### Truing up of Annual Fixed Charges for the 2014-19 Tariff Period

29. The details of the trued-up transmission charges claimed by the Petitioner are as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	37.48	15.40	15.40	15.40	15.40
Interest on Loan	14.35	18.10	16.42	14.74	13.06
Return on equity	19.12	19.21	19.20	19.20	19.25
Interest on Working Capital	7.30	7.07	7.22	7.38	7.55
O & M Expenses	102.51	105.91	109.43	113.06	116.81
<b>Total</b>	<b>180.76</b>	<b>165.69</b>	<b>167.67</b>	<b>169.78</b>	<b>172.07</b>

30. The details of the trued-up Interest on Working Capital (IWC) claimed by the Petitioner are as follows:

(₹ in lakh)					
Particular	2014-15	2015-16	2016-17	2017-18	2018-19
O & M expenses	8.54	8.83	9.12	9.42	9.73
Maintenance Spares	15.38	15.89	16.41	16.96	17.52
Receivables	30.13	27.62	27.95	28.30	28.68
<b>Total</b>	<b>54.05</b>	<b>52.34</b>	<b>53.48</b>	<b>54.68</b>	<b>55.93</b>
Rate of Interest (in %)	13.50	13.50	13.50	13.50	13.50
<b>Interest</b>	<b>7.30</b>	<b>7.07</b>	<b>7.22</b>	<b>7.38</b>	<b>7.55</b>

#### Capital Cost as on 1.4.2014

31. The capital cost of the instant asset has been calculated in accordance with Regulations 9(3) and 9(6) of the 2014 Tariff Regulations. The Commission vide



Order in Petition No.263/TT/2019



Page 16 of 46

order dated 8.1.2016 in Petition No.223/TT/2014 had approved the transmission tariff for the transmission asset for the 2014-19 tariff period based on admitted capital cost of ₹709.82 lakh as on 31.3.2014. The Petitioner has not claimed any ACE during the 2014-19 tariff period. Therefore, the admitted capital cost of ₹709.82 lakh as on 31.3.2014 has been considered for working out the trued-up tariff for the 2014-19 tariff period.

**Debt-Equity Ratio**

32. The debt-equity ratio has been allowed in accordance with Regulation 19(3) of the 2014 Tariff Regulations. As per Regulation 19(3) of the 2014 Tariff Regulations, the debt-equity ratio allowed by the Commission for determination of tariff for the period ending on 31.3.2014 shall be considered. Accordingly, the admitted debt-equity ratio of 86.27:13.73 for the period ending on 31.3.2014 has been considered as opening debt-equity ratio as on 1.4.2014 for the purpose of truing up of tariff of the 2014-19 tariff period of the transmission asset. The details of the debt-equity ratio of the transmission asset as on 1.4.2014 and 31.3.2019 is as follows:

Particulars	Capital cost as on 1.4.2014 (₹ in lakh)	(in %)	Total cost as on 31.3.2019 (₹ in lakh)	(in %)
Debt	612.39	86.27	612.39	86.27
Equity	97.43	13.73	97.43	13.73
<b>Total</b>	<b>709.82</b>	<b>100.00</b>	<b>709.82</b>	<b>100.00</b>

**Depreciation**

33. The Petitioner has claimed depreciation considering capital expenditure of ₹709.82 lakh as on 1.4.2014 for the transmission asset. The Petitioner has not claimed any depreciation towards "IT Equipment" in the instant petition.



34. The depreciation has been worked out as per the methodology provided in Regulation 27 of the 2014 Tariff Regulations. The Gross Block during the 2014-19 tariff period has been depreciated at weighted average rate of depreciation (WAROD) and working of WAROD is given at Annexure-I to this order. The transmission asset having already completed 12 years of life as on 31.3.2015, the remaining depreciable value of ₹200.20 lakh has been spread across the balance useful life of 13 years in accordance with Regulation 27(5) of the 2014 Tariff Regulations. WAROD has been worked out after taking into account the depreciation rate as specified in the 2014 Tariff Regulations and the trued-up depreciation allowed for the 2014-19 tariff period is as follows:-

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Block	709.82	709.82	709.82	709.82	709.82
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	709.82	709.82	709.82	709.82	709.82
Average Gross Block	709.82	709.82	709.82	709.82	709.82
Weighted average Rate of Depreciation (WAROD) (in %)	5.28	2.17	2.17	2.17	2.17
Balance useful life at the beginning of the year (Year)	14	13	12	11	10
Aggregate Depreciable Value	638.84	638.84	638.84	638.84	638.84
<b>Depreciation during the year</b>	<b>37.48</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>
Depreciation at the end of the year	438.64	454.04	469.44	484.84	500.24
Remaining Aggregate Depreciable Value at the end of the year	200.20	184.80	169.40	154.00	138.60

35. Accordingly, the depreciation allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014, depreciation claimed in the instant petition and trued-up depreciation approved in respect of the transmission asset are as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	37.48	13.68	13.68	13.68	13.68



As claimed by the Petitioner in the instant petition	37.48	15.40	15.40	15.40	15.40
Approved after true-up in this order	37.48	15.40	15.40	15.40	15.40

### Interest on Loan (IoL)

36. The Petitioner has claimed IoL based on actual interest rates for each year during the 2014-19 tariff period. The Petitioner has submitted that the weighted average rate of IoL has been considered on the basis of the rates prevailing as on 1.4.2014 and has prayed to consider floating rate of interest applicable during the 2014-19 period, if any, during the truing up of tariff.

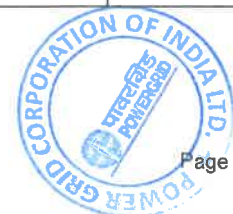
37. We have considered the submissions of the Petitioner and accordingly calculated the IoL based on actual interest rate, in accordance with Regulation 26 of the 2014 Tariff Regulations. IoL has been worked out as detailed below:

(i) Gross amount of loan, repayment of instalments and weighted average rate of interest on actual average loan have been considered as per the petition.

(ii) The repayment for the tariff period 2014-19 has been considered to be equal to the depreciation allowed for that period.

38. The details of IoL calculated are as follows:

Particular	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Normative Loan	612.39	612.39	612.39	612.39	612.39
Cumulative Repayments up to Previous Year	401.16	438.64	454.04	469.44	484.84
Net Loan-Opening	211.23	173.75	158.35	142.95	127.55
Additions	0.00	0.00	0.00	0.00	0.00
Repayment during the year	37.48	15.40	15.40	15.40	15.40
Net Loan-Closing	173.75	158.35	142.95	127.55	112.15
Average Loan	192.49	166.05	150.65	135.25	119.85
Weighted Average Rate of Interest on Loan (in %)	7.452	10.90	10.901	10.901	10.901
<b>Interest on Loan</b>	<b>14.35</b>	<b>18.10</b>	<b>16.42</b>	<b>14.74</b>	<b>13.07</b>



39. Accordingly, IoL allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014, IoL claimed by the Petitioner in the instant petition and approved after true-up in respect of the transmission asset is as follows:

Particulars	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	12.11	15.76	14.27	12.78	11.29
As claimed by the Petitioner in the instant petition	14.35	18.10	16.42	14.74	13.06
Approved after true-up in this order	14.35	18.10	16.42	14.74	13.07

### Return on Equity (RoE)

40. The Petitioner has claimed RoE for the transmission asset in terms of Regulation 24 and Regulation 25 of the 2014 Tariff Regulations. The Petitioner has submitted that it is liable to pay income tax at MAT rates and has claimed following effective tax rates for the 2014-19 tariff period:

Year	Claimed effective tax rate (in %)	Grossed-up RoE [Base Rate/(1-t)] (in %)
2014-15	21.018	19.624
2015-16	21.382	19.716
2016-17	21.338	19.705
2017-18	21.337	19.704
2018-19	21.549	19.758

41. BSPHCL in its reply has submitted that the Petitioner in the instant Petition has not specified whether the tax and interest paid by the Petitioner is after adjustment of any refund of tax including interest received and is also exclusive of penalty on account of late payment of tax or short deposit of tax. BSPHCL has further submitted that truing up of grossed-up RoE has to be done on the basis of actual taxes paid every year during the 2014-19 period and that the 2014 Tariff Regulations do not allow for claiming any differential tariff arising due to truing up of grossed up RoE directly from the beneficiaries.



42. In response, the Petitioner has submitted that in various orders such as order dated 18.4.2020 in Petition No. 247/TT/2019, order dated 27.4.2020 in Petition No. 274/TT/2019, order dated 23.4.2020 in Petition No. 245/TT/2019 and in order dated 16.4.2020 in Petition No. 307/TT/2019, the Commission has considered the effective tax rate based on notified MAT rates for grossing up of rate of RoE. It has been further submitted that the trued-up RoE based on the effective tax rate as calculated in the aforementioned petitions are based upon Income Tax Assessment/ re-assessment for 2014-15, 2015-16 and 2016-17. Further, the Income Tax Assessment for 2017-18 and 2018-19 has not been completed yet.

43. We have considered the submissions of the Petitioner and BSPHCL. As regards BSPHCL's contention that the grossed-up rate of RoE for the period 2017-18 to 2018-19 is not based on the MAT rates approved by the Income Tax Authorities, it is observed that the effective rate of tax considered by the Petitioner for 2014-15, 2015-16 and 2016-17 is based on Assessment Orders issued by Income Tax Authorities and that the effective rate of tax considered for 2017-18 and 2018-19 are based on the Income Tax returns filed for the purpose of grossing up the RoE rate of respective years. In view of the clarification given by the Petitioner, we are of the view that there is no merit in the contention of BSPHCL.

44. The Commission in order dated 27.4.2020 in Petition No. 274/TT/2019 has arrived at the effective tax rate based on the notified MAT rates as follows:

<b>Year</b>	<b>Notified MAT rates (in %) (inclusive of surcharge &amp; cess)</b>	<b>Effective tax (in %)</b>
2014-15	20.961	20.961
2015-16	21.342	21.342
2016-17	21.342	21.342
2017-18	21.342	21.342
2018-19	21.549	21.549





45. The same MAT rates as considered in order dated 27.4.2020 in Petition No. 274/TT/2019 are considered for the purpose of grossing up of rate of RoE for trueing up of the tariff of the 2014-19 tariff period in terms of the provisions of the 2014 Tariff Regulations, as under:

Year	Notified MAT rates (in %) (inclusive of surcharge & cess)	Base rate of RoE (in %)	Grossed-up RoE [Base Rate/(1-t)] (in %)
2014-15	20.961	15.50	19.610
2015-16	21.342	15.50	19.705
2016-17	21.342	15.50	19.705
2017-18	21.342	15.50	19.705
2018-19	21.549	15.50	19.758

46. Accordingly, RoE allowed for the transmission asset is as follows:

Particular	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	97.43	97.43	97.43	97.43	97.43
Addition due to ACE	0.00	0.00	0.00	0.00	0.00
Closing Equity	97.43	97.43	97.43	97.43	97.43
Average Equity	97.43	97.43	97.43	97.43	97.43
Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
Tax Rate applicable (in %)	20.961	21.342	21.342	21.342	21.549
Applicable ROE Rate (in %)	19.610	19.705	19.705	19.705	19.758
<b>Return on Equity for the year</b>	<b>19.11</b>	<b>19.20</b>	<b>19.20</b>	<b>19.20</b>	<b>19.25</b>

47. Accordingly, RoE allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014, RoE claimed in the instant petition and true-up RoE in respect of the transmission asset is as follows:

Particular	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	19.11	19.11	19.11	19.11	19.11
As claimed by the Petitioner in the instant petition	19.12	19.21	19.20	19.20	19.25
Approved after true-up in this order	19.11	19.20	19.20	19.20	19.25



### Operation & Maintenance Expenses (O&M Expenses)

48. The details of the O&M Expenses claimed by the Petitioner for the transmission asset and allowed under Regulation 29(4)(a) of the 2014 Tariff Regulations for the purpose of tariff are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Substation Bays</b>					
400kV Sub-station	1	1	1	1	1
220kV Sub-station	1	1	1	1	1
<b>Norms (₹ lakh/km)</b>					
400kV Sub-station	60.300	62.300	64.370	66.510	68.710
220kV Sub-station	42.210	43.610	45.060	46.550	48.100
<b>O&amp;M Substation</b>	<b>102.51</b>	<b>105.91</b>	<b>109.43</b>	<b>113.06</b>	<b>116.81</b>
<b>Total O&amp;M (₹ in lakh)</b>	<b>102.51</b>	<b>105.91</b>	<b>109.43</b>	<b>113.06</b>	<b>116.81</b>

49. Accordingly, the O&M Expenses allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014, O&M Expenses claimed in the instant petition and trued-up O&M Expenses in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	102.51	105.91	109.43	113.06	116.81
As claimed by the Petitioner in the instant petition	102.51	105.91	109.43	113.06	116.81
Approved in this order	102.51	105.91	109.43	113.06	116.81

### Interest on Working Capital (IWC)

50. The Petitioner has claimed IWC in terms of Regulation 28 of the 2014 Tariff Regulations as follows:

#### **(i) Receivables**

Receivables as a component of working capital will be equivalent to two months fixed cost. The Petitioner has claimed the receivables on the basis of 2 months annual transmission charges. In the tariff being allowed,



receivables have been worked out on the basis of 2 months transmission charges.

**(ii) Maintenance spares**

Regulation 28 of the 2014 Tariff Regulations provides for maintenance spares @ 15% per annum of the O&M expenses. The value of maintenance spares has accordingly been worked out.

**(iii) O & M expenses**

Operation and maintenance expenses have been considered for one month as a component of working capital. The Petitioner has claimed O&M expenses for 1 month of the respective year as claimed in the petition. This has been considered in the working capital.

**(iv) Rate of interest on working capital**

As per Proviso 3 of Regulation 28 of the 2014 Tariff Regulation, SBI Base rate 10.00% as on 1.4.2014 plus 350 Bps i.e. 13.50% has been considered for the asset, as the rate of interest on working capital.

51. The trued-up IWC allowed for the transmission asset for the 2014-19 period is as follows:

Particulars	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
O & M Expenses (O&M expenses for 1 month)	8.54	8.83	9.12	9.42	9.73
Maintenance Spares (15% of O&M expenses)	15.38	15.89	16.41	16.96	17.52
Receivables (Equivalent to 2 months of annual fixed cost / annual transmission charges)	30.12	27.61	27.95	28.30	28.687
<b>Total</b>	<b>54.04</b>	<b>52.32</b>	<b>53.48</b>	<b>54.68</b>	<b>55.941</b>
Rate of Interest on working capital (in %)	13.50	13.50	13.50	13.50	13.50
<b>Interest of working Capital</b>	<b>7.30</b>	<b>7.06</b>	<b>7.22</b>	<b>7.38</b>	<b>7.55</b>

52. Accordingly, IWC allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014, IWC claimed in the instant petition and trued-up IWC in respect of the transmission asset is as follows:



(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	7.24	6.97	7.13	7.29	7.47
As claimed by the Petitioner in the instant petition	7.30	7.07	7.22	7.38	7.55
Approved after true-up in this order	7.29	7.06	7.22	7.38	7.55

### Approved Annual Fixed Charges for the 2014-19 Tariff Period

53. Accordingly, the annual fixed charges after truing up for the 2014-19 tariff period are as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	37.48	15.40	15.40	15.40	15.40
Interest on Loan	14.35	18.10	16.42	14.74	13.07
Return on Equity	19.11	19.20	19.20	19.20	19.25
Interest on Working Capital	7.30	7.06	7.22	7.38	7.55
O&M Expenses	102.51	105.91	109.43	113.06	116.81
<b>Total</b>	<b>180.74</b>	<b>165.67</b>	<b>167.67</b>	<b>169.78</b>	<b>172.08</b>

54. Accordingly, the details of the Annual Transmission Charges approved vide order dated 8.1.2016 in Petition No. 223/TT/2014, the Annual Transmission Charges claimed in the instant petition and trued-up Annual Transmission Charges approved in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed vide order dated 8.1.2016 in Petition No. 223/TT/2014	178.45	161.43	163.62	165.92	168.36
As claimed by the Petitioner in the instant petition	180.76	165.69	167.67	169.78	172.07
Approved after true-up in this order	180.74	165.67	167.67	169.78	172.08

### Determination of Annual Fixed Charges for the 2019-24 Tariff Period

55. The Petitioner has claimed the following transmission charges for the 2019-24 tariff period:



(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	15.40	15.40	15.40	15.40	15.40
Interest on Loan	11.39	9.71	8.03	6.35	4.67
Return on equity	19.25	19.25	19.25	19.25	19.25
Interest on Working Capital	7.99	8.23	8.47	8.73	8.97
O & M Expenses	167.43	173.45	179.53	185.99	192.22
<b>Total</b>	<b>221.46</b>	<b>226.04</b>	<b>230.68</b>	<b>235.72</b>	<b>240.51</b>

56. The details of IWC claimed by the Petitioner for the transmission asset for the 2019-24 tariff period are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O & M expenses	13.95	14.45	14.96	15.50	16.02
Maintenance Spares	25.11	26.02	26.93	27.90	28.83
Receivables	27.23	27.87	28.44	29.06	29.57
<b>Total</b>	<b>66.29</b>	<b>68.34</b>	<b>70.33</b>	<b>72.46</b>	<b>74.42</b>
Rate of Interest (in %)	12.05	12.05	12.05	12.05	12.05
<b>Interest</b>	<b>7.99</b>	<b>8.23</b>	<b>8.47</b>	<b>8.73</b>	<b>8.97</b>

### Capital Cost

57. Regulation 19 of the 2019 Tariff Regulations provides as follows:

*“(1) The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.*

*(2) The Capital Cost of a new project shall include the following:*

*(a) The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;*

*(b) Interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;*

*(c) Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;*

*(d) Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;*

*(e) Capitalised initial spares subject to the ceiling rates in accordance with these regulations;*

*(f) Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;*

*(g) Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 7 of these regulations;*



- (h) Adjustment of revenue earned by the transmission licensee by using the asset before the date of commercial operation;
- (i) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (j) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;
- (k) Capital expenditure on account of biomass handling equipment and facilities, for co-firing;
- (l) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
- (m) Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;
- (n) Expenditure on account of change in law and force majeure events; and
- (o) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.

(3) The Capital cost of an existing project shall include the following:

- (a) Capital cost admitted by the Commission prior to 1.4.2019 duly tried up by excluding liability, if any, as on 1.4.2019;
- (b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;
- (c) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (d) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and
- (f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries."

(4) The capital cost in case of existing or new hydro generating station shall also include:

- (a) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
- (b) cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.

(5) The following shall be excluded from the capital cost of the existing and new projects:

- (a) The asset forming part of the project, but not in use, as declared in the tariff petition;



*(b) De-capitalised Asset after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:*

*Provided that in case replacement of transmission asset is recommended by Regional Power Committee, such asset shall be decapitalised only after its redeployment;*

*Provided further that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned asset.*

*(c) In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;*

*(d) Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and*

*(e) Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment. “*

58. The capital cost of ₹709.82 lakh has been considered by the Commission for the transmission asset as on 31.3.2019. The Petitioner has not claimed any ACE for the 2019-24 tariff period for the transmission asset in the instant petition. Therefore, the capital cost of ₹709.82 lakh as on 31.3.2019 has been considered as the opening capital cost as on 1.4.2019 for the purpose of determination of transmission tariff for the 2019-24 tariff period in accordance with Regulation 19 of the 2019 Tariff Regulations.

### **Debt-Equity Ratio**

59. Regulation 18 of the 2019 Tariff Regulations provides as follows:

*“18. Debt-Equity Ratio: (1) For new projects, the debt: equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:*

*Provided that:*

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:*
- ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:*
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.*



(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.

(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;

Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 72 of these regulations.

(4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.

(5) Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation."

60. The debt-equity ratio for the 2019-24 period is allowed as per Regulation 18(3) of the 2019 Tariff Regulations. The details of the debt-equity ratio considered for the purpose of tariff for 2019-24 tariff period are as follows:

Particulars	Capital cost as on 1.4.2019 (₹ in lakh)	(in %)	Total cost as on 31.3.2024 (₹ in lakh)	(in %)
Debt	612.39	86.27	612.39	86.27
Equity	97.43	13.73	97.43	13.73
<b>Total</b>	<b>709.82</b>	<b>100.00</b>	<b>709.82</b>	<b>100.00</b>

### Depreciation

61. Regulation 33 of the 2019 Tariff Regulations provides as follows:





"33. Depreciation: (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which single tariff needs to be determined.

(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.

(3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the asset shall be considered depreciable;

Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided also that the capital cost of the asset of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.

(4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

(5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-I to these regulations for the asset of the generating station and transmission system:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the asset.



(6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.3.2019 from the gross depreciable value of the asset.

(7) The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.

(8) In case of de-capitalization of asset in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the de-capitalized asset during its useful services.”

62. We have considered the submissions of the Petitioner. WAROD has been worked out at Annexure-II after taking into account the depreciation rates as specified in the 2019 Tariff Regulations. The depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation up to 31.3.2019. The depreciation allowed for the transmission asset is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross Block	709.82	709.82	709.82	709.82	709.82
Addition during 2019-24 due to projected ACE	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	709.82	709.82	709.82	709.82	709.82
Average Gross Block	709.82	709.82	709.82	709.82	709.82
Balance useful life at the beginning of the year (Year)	9	8	7	6	5
Depreciable Value	638.84	638.84	638.84	638.84	638.84
Rate of Depreciation (in %)	2.17	2.17	2.17	2.17	2.17
<b>Depreciation during the year</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>
Cumulative Depreciation	515.64	531.04	546.44	561.84	577.24
Remaining Aggregate Depreciable Value	123.20	107.80	92.40	77.00	61.60

**Interest on Loan (IoL)**

63. Regulation 32 of the 2019 Tariff Regulations provides as follows:



*"32. Interest on loan capital: (1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.*

*(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.*

*(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of asset, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered up to the date of de-capitalisation of such asset.*

*(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.*

*(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:*

*Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered;*

*Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.*

*(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.*

*(7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing".*

64. BSPHCL has submitted that there is no provision in the 2019 Tariff Regulations which supports the claim of the Petitioner in respect of floating rate of interest to be directly adjusted/ claimed with the beneficiaries.

65. In response, the Petitioner has stated that for the 2019-24 tariff period, the IoL has been calculated on the basis of interest rates prevailing as on 1.4.2019.



66. We have considered the submissions of the Petitioner and BSPHCL. The weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2019. The Petitioner has prayed that the change in interest rate due to floating rate of interest applicable, if any, during 2019-24 tariff period will be adjusted. The floating rate of interest, if any, shall be considered at the time of true up. Accordingly, IoL has been worked out in accordance with Regulation 32 of the 2019 Tariff Regulations as follows:

Particular	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative Loan	612.39	612.39	612.39	612.39	612.39
Cumulative Repayments up to Previous Year	500.24	515.64	531.04	546.44	561.84
Net Loan-Opening	112.15	96.75	81.35	65.95	50.55
Additions	0.00	0.00	0.00	0.00	0.00
Repayment during the year	15.40	15.40	15.40	15.40	15.40
Net Loan-Closing	96.75	81.35	65.95	50.55	35.15
Average Loan	104.45	89.05	73.65	58.25	42.85
Weighted Average Rate of Interest on Loan (in %)	10.901	10.901	10.901	10.901	10.901
Interest on Loan	<b>11.39</b>	<b>9.71</b>	<b>8.03</b>	<b>6.35</b>	<b>4.67</b>

### Return on Equity (RoE)

67. Regulations 30 and Regulation 31 of the 2019 Tariff Regulations provide as follows:

*“30. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.*

*(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of river generating station with pondage:*

*Provided that return on equity in respect of additional capitalization after cut-off date beyond the original scope excluding additional capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system;*

*Provided further that:*



i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective;

ii. in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;

iii. in case of a thermal generating station, with effect from 1.4.2020:

a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;

b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019."

"31. Tax on Return on Equity: (1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where "t" is the effective tax rate in accordance with clause (1) of this Regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

(3) The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial



year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long-term customers, as the case may be, on year to year basis.”

68. The Petitioner has submitted that MAT rate is applicable to the Petitioner's company. Accordingly, the MAT rate applicable in 2019-20 has been considered for the purpose of RoE, which shall be trued-up with actual tax rate in accordance with Regulation 31(3) of the 2019 Tariff Regulations. RoE allowed for the transmission asset under Regulation 30 of the 2019 Tariff Regulations is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	97.43	97.43	97.43	97.43	97.43
Additions	0.00	0.00	0.00	0.00	0.00
Closing Equity	97.43	97.43	97.43	97.43	97.43
Average Equity	97.43	97.43	97.43	97.43	97.43
Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (in %)	17.472	17.472	17.472	17.472	17.472
Rate of Return on Equity (in %)	18.782	18.782	18.782	18.782	18.782
<b>Return on Equity</b>	<b>18.30</b>	<b>18.30</b>	<b>18.30</b>	<b>18.30</b>	<b>18.30</b>

#### Operation & Maintenance Expenses (O&M Expenses)

69. Regulation 35(3)(a) of the 2019 Tariff Regulations specifies the norms for O&M Expenses for the transmission system and the same is as follows:

“(3) Transmission system: (a) The following normative operation and maintenance expenses shall be admissible for the transmission system:”

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<i>Norms for sub-station Bays (₹ Lakh per bay)</i>					
765 kV	45.01	46.60	48.23	49.93	51.68
400 kV	32.15	33.28	34.45	35.66	36.91
220 kV	22.51	23.30	24.12	24.96	25.84
132 kV and below	16.08	16.64	17.23	17.83	18.46
<i>Norms for Transformers (₹ Lakh per MVA)</i>					



765 kV	0.491	0.508	0.526	0.545	0.564
400 kV	0.358	0.371	0.384	0.398	0.411
220 kV	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.245	0.254	0.263	0.272	0.282
<b>Norms for AC and HVDC lines (₹ Lakh per km)</b>					
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.503	0.521	0.539	0.558	0.578
Single Circuit (Single Conductor)	0.252	0.260	0.270	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.544	1.598	1.654	1.713	1.773
<b>Norms for HVDC stations</b>					
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	834	864	894	925	958
Gazuwaka HVDC Back-to-Back station (₹ Lakh per 500 MW)	1,666	1,725	1,785	1,848	1,913
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	2,252	2,331	2,413	2,498	2,586
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	2,468	2,555	2,645	2,738	2,834
±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	1,696	1,756	1,817	1,881	1,947
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	2,563	2,653	2,746	2,842	2,942

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays;

Provided further that:

- i. the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period;
- ii. the O&M expenses norms for HVDC bi-pole line shall be considered as Double Circuit quad AC line;
- iii. the O&M expenses of ±500 kV Mundra-Mohindergarh HVDC bipole scheme (2000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±500 kV Talchar-Kolar HVDC bi-pole scheme



(2000 MW);

- iv. the O&M expenses of  $\pm 800$  kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for  $\pm 800$  kV, Bishwanath-Agra HVDC bi-pole scheme;
- v. the O&M expenses of  $\pm 800$  kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for  $\pm 800$  kV, Bishwanath-Agra HVDC bi-pole scheme; and
- vi. the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if required, may be reviewed after three years.

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.

(c) The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:

Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.

(4) Communication system: The operation and maintenance expenses for the communication system shall be worked out at 2.0% of the original project cost related to such communication system. The transmission licensee shall submit the actual operation and maintenance expenses for truing up.”

70. The O&M Expenses claimed by the Petitioner for the transmission asset for 2019-24 tariff period are as follows:

Particulars	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Sub-station Bays</b>					
400kV Sub-station	1	1	1	1	1
220kV Sub-station	1	1	1	1	1
400kV Sub-station ICT(MVA)	315	315	315	315	315
<b>Norms (₹ lakh/km)</b>					
400kV Sub-station	32.15	33.28	34.45	35.66	36.91
220kV Sub-station	22.51	23.30	24.12	24.96	25.84
400kV Sub-station ICT	0.358	0.371	0.384	0.398	0.411
<b>O&amp;M Substation</b>	<b>167.43</b>	<b>173.45</b>	<b>179.53</b>	<b>185.99</b>	<b>192.22</b>
<b>Total O&amp;M (₹ in lakh)</b>	<b>167.43</b>	<b>173.45</b>	<b>179.53</b>	<b>185.99</b>	<b>192.22</b>





71. The O&M Expenses claimed by the Petitioner are in accordance with Regulation 35(3) of the 2019 Tariff Regulations. Hence, they are allowed as claimed.

### **Interest on Working Capital (“IWC”)**

72. Regulations 34(1)(c), 34(3), 34(4) and 3(7) of the 2019 Tariff Regulations specify as follows:

*“34. Interest on Working Capital*

*(1)...*

*(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:*

- i. Receivables equivalent to 45 days of fixed cost;*
- ii. Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and*
- iii. Operation and maintenance expenses, including security expenses for one month”*

*“(3)Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:*

*Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.*

*(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.”*

*“3.Definitions ...*

*(7) ‘Bank Rate’ means the one year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;”*

73. The Petitioner has submitted that it has computed IWC for the 2019-24 period considering the SBI Base Rate plus 350 basis points as on 1.4.2019. The Petitioner has considered the rate of interest on working capital as 12.05%. The IWC is worked out in accordance with Regulation 34 of the 2019 Tariff Regulations. The



Rate of Interest (RoI) on working capital considered is 12.05% (SBI 1 year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for 2019-20, whereas, RoI for 2020-21 onwards has been considered as 11.25% (SBI 1 year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points). The components of the working capital and interest thereon allowed for the transmission asset is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O & M Expenses (O&M expenses for 1 month)	13.95	14.45	14.96	15.50	16.02
Maintenance Spares (15% of O&M expenses)	25.11	26.02	26.93	27.90	28.83
Receivables (Equivalent to 45 days of annual fixed cost/ annual transmission charges)	27.11	27.68	28.25	28.87	29.38
<b>Total</b>	<b>66.18</b>	<b>68.15</b>	<b>70.14</b>	<b>72.27</b>	<b>74.23</b>
Rate of Interest (in %)	12.05	11.25	11.25	11.25	11.25
<b>Interest of working capital</b>	<b>7.97</b>	<b>7.67</b>	<b>7.89</b>	<b>8.13</b>	<b>8.35</b>

#### Annual Fixed Charges for the 2019-24 Tariff Period

74. The transmission charges allowed for the transmission asset for the 2019-24 period are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	15.40	15.40	15.40	15.40	15.40
Interest on Loan	11.39	9.71	8.03	6.35	4.67
Return on Equity	18.30	18.30	18.30	18.30	18.30
Int. on Working Capital	7.97	7.67	7.89	8.13	8.35
Op. and Maintenance	167.43	173.45	179.53	185.99	192.22
<b>Total</b>	<b>220.49</b>	<b>224.52</b>	<b>229.15</b>	<b>234.17</b>	<b>238.94</b>

#### Filing Fee and Publication Expenses

75. The Petitioner has sought reimbursement of fee paid by it for filing the petition and publication expenses.

76. BSPHCL submitted that filing fee is at the discretion of the Commission and need not be allowed necessarily.



Order in Petition No.263/TT/2019



77. In response, the Petitioner has submitted that the Commission in its order dated 28.3.2016 in Petition No. 137/TT/2015 for determination of tariff for 2014-19 period allowed the recovery of petition filing fee and publication of notices from the beneficiaries on pro rata basis and the Petitioner is claiming the same in terms of Regulation 70(1) of the 2019 Tariff Regulations.

78. We have considered the submissions of the Petitioner and BSPHCL. The Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

#### **Licence Fee & RLDC Fees and Charges**

79. The Petitioner has claimed to bill and recover License fee and RLDC fees and charges, separately from the Respondents in terms of Regulation 70(4) and Regulations 70(3) of the 2019 Tariff Regulations.

80. We have considered the submissions of the Petitioner. The Petitioner shall be entitled for reimbursement of licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for 2019-24 tariff period. The Petitioner shall also be entitled for recovery of RLDC fee and charges in accordance with Regulations 70(3) of the 2019 Tariff Regulations for 2019-24 tariff period.

#### **Security Expenses**

81. The Petitioner has submitted that security expenses for the instant asset are not claimed in the instant petition and it would file a separate petition for claiming the overall security expenses and the consequential IWC. The Petitioner has requested to consider the actual security expenses incurred during 2018-19 for claiming



estimated security expenses for 2019-20 which shall be subject to true up at the end of the year based on the actuals. The Petitioner has submitted that similar petition for security expenses for 2020-21, 2021-22, 2022-23 and 2023-24 shall be filed on a yearly basis on the basis of the actual expenses of previous year subject to true up at the end of the year on actual expenses. The Petitioner has submitted that the difference, if any, between the estimated security expenses and actual security expenses as per the audited accounts may be allowed to be recovered from the beneficiaries on yearly basis.

82. We have considered the submissions of the Petitioner. We are of the view that the Petitioner should claim security expenses for all the transmission assets in one petition. It is observed that the Petitioner has already filed Petition No. 260/MP/2020 claiming consolidated security expenses on projected basis for the 2019-24 tariff period on the basis of actual security expenses incurred in 2018-19. Therefore, security expenses will be dealt with in Petition No. 260/MP/2020 in accordance with the applicable provisions of the 2019 Tariff Regulations.

### **Goods and Services Tax**

83. The Petitioner has submitted that, if GST is levied at any rate and at any point of time in future on Charges of transmission of electricity, the same shall be borne and additionally paid by the Respondent(s) to the Petitioner and the same shall be charged and billed separately by the Petitioner. Further additional taxes, if any, are to be paid by the Petitioner on account of demand from Govt. / Statutory authorities, the same may be allowed to be recovered from the beneficiaries.



84. BSPHCL submitted that in terms of Regulation 56 of the 2019 Tariff Regulations, statutory charges can be recovered only by a generating company and not a transmission licensee.

85. PGCIL in its response has submitted that Under CGST Act, 2017 implemented w.e.f. 1.7.2017, the Govt. of India has exempted the charges of transmission of electricity vide Notification No. 12/2017 – Central Tax (Rate) dated 28.6.2017 at serial no. 25 under the heading 9969 “Transmission or distribution of electricity by an electric transmission or distribution utility” by giving applicable GST rate as NIL. Hence, the transmission charges as indicated in the instant petition are exclusive of GST. Further, if GST is levied at any rate and at any point of time in future on transmission of electricity, the same shall be borne and additionally paid by the Respondent(s) to the Petitioner and the same shall be charged and billed separately by the Petitioner. Further additional taxes, if any, paid by the Petitioner on account of demand from Government/ Statutory authorities, may also be allowed to be recovered from the beneficiaries.

86. We have considered the submissions of the Petitioner and BSPHCL. Since, GST is not levied on transmission service at present, we are of the view that Petitioner's prayer is premature.

#### **Capital Spares**

87. The Petitioner has sought reimbursement of capital spares at the end of tariff period. The Petitioner's claim, if any, shall be dealt with in accordance with the provisions of the 2019 Tariff Regulations.



### Sharing of Transmission Charges

88. During the tariff periods 2001-04, 2004-09 and 2009-14 (up to 30.6.2011), the transmission charges for inter-State transmission systems were being shared in accordance with the tariff regulations for the respective tariff periods. With effect from 1.7.2011, sharing of transmission charges for inter-State transmission systems is governed by Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2010 and with effect from 1.11.2020, sharing is governed by Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2020 (2020 Sharing Regulations). Accordingly, the liabilities of the DICs for arrears of transmission charges determined through this order shall be computed DIC-wise in accordance with the provisions of respective Tariff Regulations and Sharing Regulations and shall be recovered from the concerned DICs through Bill 2 under Regulation 15(2)(b) of the 2020 Sharing Regulations.

89. To summarise:

(a) The revised transmission charges allowed for the transmission asset for 2001-04 tariff period are as follows:

Particulars	(₹ in lakh)	
	2002-03	2003-04
Revised AFC	66.18	135.19

(b) The revised annual transmission charges allowed for the transmission asset for the 2004-09 tariff period are as follows:

Particulars	(₹ in lakh)				
	2004-05	2005-06	2006-07	2007-08	2008-09
Revised AFC	146.11	148.04	156.56	158.49	160.79

(c) The consequential revision of annual transmission charges allowed for the transmission asset of the 2009-14 tariff period are as follows:

Particulars	(₹ in lakh)				
	2009-10	2010-11	2011-12	2012-13	2013-14
Revised AFC	177.23	177.73	180.68	184.93	190.09



(d) The trued-up Annual Fixed Charges approved for the transmission asset for the 2014-19 tariff period are as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
AFC	180.74	165.67	167.67	169.78	172.08

(e) The Annual Fixed Charges allowed for the transmission asset for the 2019-24 tariff period in this order are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
AFC	220.49	224.52	229.15	234.17	238.94

90. Annexure-I and Annexure-II to this order shall form part of the order.

91. This order disposes of Petition No. 263/TT/2019 in terms of the above discussion and findings.

sd/-  
(Pravas Kumar Singh)  
Member

sd/-  
(Arun Goyal)  
Member

sd/-  
(I. S. Jha)  
Member

sd/-  
(P. K. Pujari)  
Chairperson



## Annexure-I

Asset	Particular	Admitted Capital Cost as on 1.4.2014 (₹ in lakh)	Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Rate of Depreciation (in %)	Annual Depreciation as per Regulations (₹ in lakh)				
					2014-15	2015-16	2016-17	2017-18	2018-19
Asset	Land	0.00	0.00	0.00					
	Building	0.00	0.00	3.34					
	Transmission Line	709.82	709.82	5.28	37.48				
	Sub Station	0.00	0.00	5.28					
	PLCC	0.00	0.00	6.33					
	Leasehold Land	0.00	0.00	3.34					
	IT Equipment and software	0.00	0.00	15.00					
	<b>TOTAL</b>	<b>709.82</b>	<b>709.82</b>		<b>37.48</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>
<b>Average Gross Block (₹ in lakh)</b>					<b>709.82</b>	<b>709.82</b>	<b>709.82</b>	<b>709.82</b>	<b>709.82</b>
<b>Weighted Average Rate of Depreciation (in %)</b>					<b>5.28</b>	<b>2.17</b>	<b>2.17</b>	<b>2.17</b>	<b>2.17</b>





**Annexure-II**

Asset	Particular	Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Admitted Capital Cost as on 31.3.2024 (₹ in lakh)	Rate of Depreciation (in %)	Annual Depreciation as per Regulations (₹ in lakh)				
					2019-20	2020-21	2021-22	2022-23	2023-24
Asset	Land	0.00	0.00	0.00					
	Building	0.00	0.00	3.34					
	Transmission Line	709.82	709.82	5.28					
	Sub Station	0.00	0.00	5.28					
	PLCC	0.00	0.00	6.33					
	Leasehold Land	0.00	0.00	3.34					
	IT Equipment and software	0.00	0.00	15.00					
	<b>TOTAL</b>	<b>709.82</b>	<b>709.82</b>		<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>	<b>15.40</b>
		<b>Average Gross Block (₹ in lakh)</b>		<b>709.82</b>	<b>709.82</b>	<b>709.82</b>	<b>709.82</b>	<b>709.82</b>	
		<b>Weighted Average Rate of Depreciation (in %)</b>		<b>2.17</b>	<b>2.17</b>	<b>2.17</b>	<b>2.17</b>	<b>2.17</b>	



Order in Petition No.263/TT/2019

**ATTESTED TRUE COPY**  
 Authorised Signatory  
 Power Grid Corporation of India Ltd  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYAN  
 Page 46 of 46

**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee:	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Year Days	366.00	365.00	365.00	365.00	366.00
Tariff Days	366.00	365.00	365.00	365.00	366.00
Depreciation-Form No. 10A	15.40	15.40	15.40	15.40	15.40
Interest on Loan-Form No. 9E	11.39	9.71	8.03	6.35	4.67
Return on Equity-Form No. 8	18.30	18.30	18.30	18.30	18.30
Int. on Working capital-Form No.11	7.97	7.67	7.36	7.58	8.92
Op. and maintenance-Form No.2	167.43	173.45	179.53	185.99	192.22
Total AFC	220.49	224.53	228.62	233.62	239.51

  
 (Petitioner)


**Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset** Form No. - 2

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCO Date	Oct 1, 2002

**1. Transmission Lines**

(Amount in Rs. Lakh)

**Summary:**



## 2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition	
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		Yes/ No	If No, Petition No.
Jeypore:220KV BAY OF ICT		220 KV				1.000						Oct 1, 2002	Y	
Jeypore:400KV BAY OF ICT		400 KV			1.000							Oct 1, 2002	Y	
Jeypore:315MVA ICT AT JEYPORE	Conventional	400 KV	1.000						315.00			Oct 1, 2002	Y	

### Summary:

O&M Expenses For Substations Covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
<b>400KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	32.15	33.28	34.45	35.66	36.91
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	32.15	33.28	34.45	35.66	36.91
<b>220KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	22.51	23.30	24.12	24.96	25.84
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	22.51	23.30	24.12	24.96	25.84

400KV SUB-STATION ICT					
Normative Rate of O&M as per Regulation	0.358	0.371	0.384	0.398	0.411
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	112.77	116.87	120.96	125.37	129.47

*Handwritten signature*



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2019-20	2020-21	2021-22	2022-23	2023-24
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	167.43	173.45	179.53	185.99	192.22
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	167.43	173.45	179.53	185.99	192.22
<b>B) O&amp;M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition )</b>					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	167.43	173.45	179.53	185.99	192.22

  
(Petitioner)



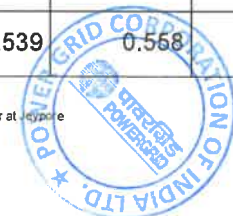
**Normative parameters considered for tariff computations**

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCO Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Base Rate of Return of Equity (in %)</b>						
Tax Rate (in %)	21.55	17.472	17.472	17.472	17.472	17.472
<b>Effective tax rate (in %)</b>						
Grossed up Rate of ROE (in %)	19.758	18.782	18.782	18.782	18.782	18.782
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
<b>Norms for sub-station Bays (Rs Lakh per bay)</b>						
765 kV	96.20	45.01	46.60	48.23	49.93	51.68
400 kV	68.71	32.15	33.28	34.45	35.66	36.91
220 kV	48.10	22.51	23.30	24.12	24.96	25.84
132 kV and below	34.36	16.08	16.64	17.23	17.83	18.46
<b>Norms for Transformers (Rs Lakh per MVA)</b>						
765 kV	0.00	0.491	0.508	0.526	0.545	0.564
400 kV	0.00	0.358	0.371	0.384	0.398	0.411
220 kV	0.00	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.00	0.245	0.254	0.263	0.272	0.282
<b>Norms for AC and HVDC lines (Rs Lakh per km)</b>						
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.806	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.691	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.461	0.503	0.521	0.539	0.558	0.578



Single Circuit (Single Conductor)	0.23	0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.21	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.806	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.346	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.123	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.413	1.544	1.598	1.654	1.713	1.773
<b>Norms for HVDC stations</b>						
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	0.00	834.00	864.00	894.00	925.00	958.00
Gazuwaka HVDC Back-to-Back station (Rs. Lakh per 500 MW)	0.00	1,666.00	1,725.00	1,785.00	1,848.00	1,913.00
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	0.00	2,252.00	2,331.00	2,413.00	2,498.00	2,586.00
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	0.00	2,468.00	2,555.00	2,645.00	2,738.00	2,834.00
±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	0.00	1,696.00	1,756.00	1,817.00	1,881.00	1,947.00
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	0.00	2,563.00	2,653.00	2,746.00	2,842.00	2,942.00

  
 (Petitioner)





**Calculation of ROE**

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the year	366.00	365.00	365.00	365.00	366.00
No. of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
Opening Normative Equity	97.43	97.43	97.43	97.43	97.43
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	97.43	97.43	97.43	97.43	97.43
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	0.00	0.00	0.00	0.00	0.00
Closing Normative Equity	97.43	97.43	97.43	97.43	97.43
Average Normative Equity	97.43	97.43	97.43	97.43	97.43
Rate of return on Equity (%)	18.782	18.782	18.782	18.782	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.782	18.782	18.782	18.782	18.782
Return on Equity	18.30	18.30	18.30	18.30	18.30
Pro rata return on Equity	18.30	18.30	18.30	18.30	18.30

  
  
 (Petitioner)

**Calculation of WAR of interest on actual loan**

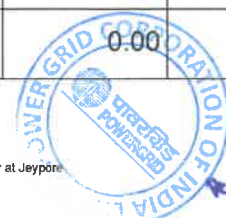
Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited				
Project	400/220 KV 315 MVA Transformer at Jeypore				
Element Description	400/220 KV 315 MVA Transformer at Jeypore				
Region	Eastern Region	DOCOC Date	Oct 1, 2002		

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>BOND IX -DOCOC</b>					
Gross Loan- Opening	65.00	65.00	65.00	65.00	65.00
Cumulative repayments of Loans upto previous year	65.00	65.00	65.00	65.00	65.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	12.25	12.25	12.25	12.25	12.25
Interest on loan	0.00	0.00	0.00	0.00	0.00

<b>BOND X -DOCOC</b>					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Loan- Opening	46.00	46.00	46.00	46.00	46.00
Cumulative repayments of Loans upto previous year	46.00	46.00	46.00	46.00	46.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00



Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	10.90	10.90	10.90	10.90	10.90
Interest on loan	0.00	0.00	0.00	0.00	0.00

<b>ADB - I -DOCO</b>					
Gross Loan- Opening	499.82	499.82	499.82	499.82	499.82
Cumulative repayments of Loans upto previous year	499.82	499.82	499.82	499.82	499.82
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	7.51	7.51	7.51	7.51	7.51
Interest on loan	0.00	0.00	0.00	0.00	0.00

<b>Summary</b>					
Gross Loan- Opening	610.82	610.82	610.82	610.82	610.82
Cumulative repayments of Loans upto previous year	610.82	610.82	610.82	610.82	610.82
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	10.901	10.901	10.901	10.901	10.901
Interest on loan	0.00	0.00	0.00	0.00	0.00



(Petitioner)



**Loans in Foreign Currency**

Form No. - 9D

Name of the Transmission Licensee		Power Grid Corporation of India Limited			
Project	400/220 KV 315 MVA Transformer at Jeypore				
Element Description	400/220 KV 315 MVA Transformer at Jeypore				
Region	Eastern Region	DOC0 Date	Oct 1, 2002		

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>ADB - I -DOC0 -USD</b>					
Gross Loan-Opening	11.28	11.28	11.28	11.28	11.28
Cumulative repayments of loans upto previous year	11.28	11.28	11.28	11.28	11.28
Net Loans-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of Loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of interest on Loan on Annual Basis	7.51	7.51	7.51	7.51	7.51
Interest on loan	0.00	0.00	0.00	0.00	0.00



**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the Year	366.00	365.00	365.00	365.00	366.00
No. of days for which Tariff claimed	366.00	365.00	365.00	365.00	366.00
Gross normative loan-Opening	612.39	612.39	612.39	612.39	612.39
Cumulative repayments of Normative loan upto previous year	500.24	515.64	531.04	546.44	561.84
Net normative loan-Opening	112.15	96.75	81.35	65.95	50.55
Addition in normative loan towards the ACE	0.00	0.00	0.00	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	15.40	15.40	15.40	15.40	15.40
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	96.75	81.35	65.95	50.55	35.15
Average normative loan	104.45	89.05	73.65	58.25	42.85
Weighted Average Rate of interest on actual loan	10.901	10.901	10.901	10.901	10.901
Interest on normative loan	11.39	9.71	8.03	6.35	4.67
Pro rata interest on normative loan	11.39	9.71	8.03	6.35	4.67



**Calculation of Depreciation Rate on Original Project Cost**

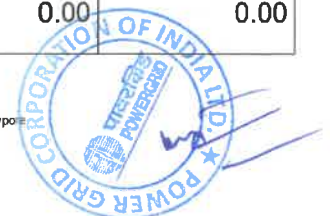
Form No. - 10

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2024
<b>2019-20</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSDM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

<b>2020-21</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00



Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

<b>2021-22</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	





2022-23						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDISM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

2023-24						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDISM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>



Weighted Average Rate of Depreciation(%)					2.169564	
--	--	--	--	--	----------	--



(Petitioner)



### Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
<b>Life at the beginning of the year</b>					
1.1 Weighted Average useful life of the Asset/ Project	25.00	25.00	25.00	25.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	16.00	17.00	18.00	19.00	20.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	9.00	8.00	7.00	6.00	5.00
<b>Capital Base</b>					
1.4 Opening capital cost	709.82	709.82	709.82	709.82	709.82
1.5 Additional Capital Expenditure dr. the year	0.00	0.00	0.00	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	709.82	709.82	709.82	709.82	709.82
1.8 Average capital cost	709.82	709.82	709.82	709.82	709.82
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	0.00
1.11 Asset having 10% salvage value included in 1.8	709.82	709.82	709.82	709.82	709.82
1.12 Depreciable Value(1.10+90% of 1.11)	638.84	638.84	638.84	638.84	638.84
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	2.169564	2.169564	2.169564	2.169564	2.169564



1.14 Depreciation(for the period)	15.40	15.40	15.40	15.40	15.40
1.15 Depreciation(Annualised)	15.40	15.40	15.40	15.40	15.40
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	500.24	515.64	531.04	546.44	561.84
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	515.64	531.04	546.44	561.84	577.24

(Petitioner) 



**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
O&M Expenses-one month	13.95	14.45	14.96	15.50	16.02
Maintenance spares 15% of O&M Expenses	25.11	26.02	26.93	27.90	28.83
Receivables equivalent to 45 days of AFC	27.11	27.68	28.19	28.80	29.45
Total Working capital	66.17	68.15	70.08	72.20	74.30
Bank Rate as on 01.04.2019 or as on 01st April of the COD year, whichever is later.	12.05	11.25	10.50	10.50	12.00
Interest on working capital	7.97	7.67	7.36	7.58	8.92
Pro rata interest on working capital	7.97	7.67	7.36	7.58	8.92

  
(Petitioner)

**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee:	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC0 Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	365.00	365.00	365.00	366.00	365.00
Tariff Days	365.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	15.40	15.40	15.40	15.40	0.00
Interest on Loan-Form No. 9E	2.99	1.31	0.24	0.00	0.00
Return on Equity-Form No. 8	18.30	18.30	18.30	18.30	18.30
Int. on Working capital-Form No.11	6.26	6.54	6.83	7.15	7.29
Op. and maintenance-Form No.2	132.73	139.77	146.96	154.61	163.02
Total AFC	175.68	181.32	187.73	195.46	188.61

  
(Petitioner)


**Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset** Form No. - 2

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

**1. Transmission Lines**

(Amount in Rs. Lakh)

**Summary:**



## 2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition	
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		Yes/ No	If No, Petition No.
Jeypore:220KV BAY OF ICT		220 KV				1.000						Oct 1, 2002	Y	
Jeypore:400KV BAY OF ICT		400 KV			1.000							Oct 1, 2002	Y	
Jeypore:315MVA ICT AT JEYPORE	Conventional	400 KV	1.000						315.00			Oct 1, 2002	Y	

### Summary:

O&M Expenses For Substations Covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
<b>400KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	29.53	31.08	32.71	34.43	36.23
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	29.53	31.08	32.71	34.43	36.23
<b>220KV SUB-STATION</b>					
Normative Rate of O&M as per Regulation	20.67	21.75	22.90	24.10	25.36
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	20.67	21.75	22.90	24.10	25.36



400KV SUB-STATION ICT					
Normative Rate of O&M as per Regulation	0.262	0.276	0.29	0.305	0.322
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	82.53	86.94	91.35	96.08	101.43

*Handwritten signature*



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	132.73	139.77	146.96	154.61	163.02
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	132.73	139.77	146.96	154.61	163.02
<b>B) O&amp;M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition )</b>					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	132.73	139.77	146.96	154.61	163.02

(Petitioner)



**Normative parameters considered for tariff computations**

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Base Rate of Return of Equity (in %)</b>						
Tax Rate (in %)	17.472	17.472	17.472	17.472	17.472	17.472
<b>Effective tax rate (in %)</b>						
Grossed up Rate for ROE of 15.5% (in %)	18.782	18.782	18.782	18.782	18.782	18.782
Grossed up Rate for ROE of 15.0% (in %)	18.176	18.176	18.176	18.176	18.176	18.176
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
<b>Norms for sub-station Bays (Rs Lakh per bay)</b>						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
<b>Norms for Transformers (Rs Lakh per MVA)</b>						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
<b>Norms for Reactor (Rs Lakh per MVAR)</b>						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322



220 kV	0.00	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.00	0.262	0.276	0.29	0.305	0.322
<b>Norms for AC and HVDC lines (Rs Lakh per km)</b>						
Single Circuit (Bundled Conductor with six or more sub-conductors)	1.011	0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled conductor with four sub-conductors)	0.867	0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple Conductor)	0.578	0.492	0.518	0.545	0.573	0.603
Single Circuit (Single Conductor)	0.289	0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled conductor with four or more sub-conductors)	1.517	1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple Conductor)	1.011	0.861	0.906	0.953	1.003	1.056
Double Circuit (Single Conductor)	0.433	0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.662	2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple Conductor)	1.773	1.509	1.588	1.671	1.759	1.851
<b>Norms for HVDC stations (Rs Lakh/MW)</b>						
HVDC bipole scheme (Rs Lakh/MW)	0.00	1.04	1.10	1.16	1.22	1.28
HVDC Back-to-Back stations (Rs Lakh/MW) (Except Gazuwaka BTB)	0.00	2.07	2.18	2.30	2.42	2.55
Gazuwaka HVDC Back-to-Back station (Rs Lakh/MW)	0.00	1.83	1.92	2.03	2.13	2.24

(Petitioner)



### Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
Opening Normative Equity	97.43	97.43	97.43	97.43	97.43
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	97.43	97.43	97.43	97.43	97.43
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	0.00	0.00	0.00	0.00	0.00
Closing Normative Equity	97.43	97.43	97.43	97.43	97.43
Average Normative Equity	97.43	97.43	97.43	97.43	97.43
Rate of return on Equity (%)	18.782	18.782	18.782	18.782	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.782	18.782	18.782	18.782	18.782
Pro rata return on Equity	18.30	18.30	18.30	18.30	18.30
Return on Equity	18.30	18.30	18.30	18.30	18.30



**Calculation of WAR of interest on actual loan**

Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOCO Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>BOND IX -DOCOCO</b>					
Gross Loan- Opening	65.00	65.00	65.00	65.00	65.00
Cumulative repayments of Loans upto previous year	65.00	65.00	65.00	65.00	65.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	12.25	12.25	12.25	12.25	12.25
Interest on loan	0.00	0.00	0.00	0.00	0.00

<b>BOND X -DOCOCO</b>					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Gross Loan- Opening	46.00	46.00	46.00	46.00	46.00
Cumulative repayments of Loans upto previous year	46.00	46.00	46.00	46.00	46.00
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00



Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	10.90	10.90	10.90	10.90	10.90
Interest on loan	0.00	0.00	0.00	0.00	0.00

<b>ADB - I -DOCO</b>					
Gross Loan- Opening	499.82	499.82	499.82	499.82	499.82
Cumulative repayments of Loans upto previous year	499.82	499.82	499.82	499.82	499.82
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	7.51	7.51	7.51	7.51	7.51
Interest on loan	0.00	0.00	0.00	0.00	0.00

**Summary**

Gross Loan- Opening	610.82	610.82	610.82	610.82	610.82
Cumulative repayments of Loans upto previous year	610.82	610.82	610.82	610.82	610.82
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	10.901	10.901	10.901	10.901	10.901
Interest on loan	0.00	0.00	0.00	0.00	0.00



(Petitioner)





**Loans in Foreign Currency**

Form No. - 9D

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC0 Date	Oct 1, 2002

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>ADB - I -DOC0 -USD</b>					
Gross Loan-Opening	11.28	11.28	11.28	11.28	11.28
Cumulative repayments of loans upto previous year	11.28	11.28	11.28	11.28	11.28
Net Loans-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of Loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of interest on Loan on Annual Basis	7.51	7.51	7.51	7.51	7.51
Interest on loan	0.00	0.00	0.00	0.00	0.00

  
 (Petitioner)



**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	365.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	365.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	612.39	612.39	612.39	612.39	612.39
Cumulative repayments of Normative loan upto previous year	577.24	592.64	608.04	612.39	612.39
Net normative loan-Opening	35.15	19.75	4.35	0.00	0.00
Addition in normative loan towards the ACE	0.00	0.00	0.00	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	15.40	15.40	4.35	0.00	0.00
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	19.75	4.35	0.00	0.00	0.00
Average normative loan	27.45	12.05	2.18	0.00	0.00
Weighted Average Rate of interest on actual loan	10.901	10.901	10.901	10.901	10.901
Interest on normative loan	2.99	1.31	0.24	0.00	0.00
Pro rata interest on normative loan	2.99	1.31	0.24	0.00	0.00



### Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
<b>2024-25</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

**2025-26**

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
----------------	------	------	------	------	------	------



Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

<b>2026-27</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	



2027-28						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	15.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDISM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>15.40</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>2.169564</b>	

2028-29						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	709.82	0.00	709.82	709.82	5.28	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDISM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>709.82</b>	<b>0.00</b>	<b>709.82</b>	<b>709.82</b>	<b>0.00</b>	<b>0.00</b>



<b>Weighted Average Rate of Depreciation(%)</b>					0.00	
---	--	--	--	--	------	--



(Petitioner)



**Statement of Depreciation**

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOCOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
<b>Life at the beginning of the year</b>					
1.1 Weighted Average useful life of the Asset/ Project	25.00	25.00	25.00	25.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	21.00	22.00	23.00	24.00	25.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	4.00	3.00	2.00	1.00	0.00
<b>Capital Base</b>					
1.4 Opening capital cost	709.82	709.82	709.82	709.82	709.82
1.5 Additional Capital Expenditure dr. the year	0.00	0.00	0.00	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	709.82	709.82	709.82	709.82	709.82
1.8 Average capital cost	709.82	709.82	709.82	709.82	709.82
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	0.00
1.11 Asset having 10% salvage value included in 1.8	709.82	709.82	709.82	709.82	709.82
1.12 Depreciable Value(1.10+90% of 1.11)	638.84	638.84	638.84	638.84	638.84
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	2.169564	2.169564	2.169564	2.169564	0.00



1.14 Depreciation(for the period)	15.40	15.40	15.40	15.40	0.00
1.15 Depreciation(Annualised)	15.40	15.40	15.40	15.40	0.00
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	577.24	592.64	608.04	623.44	638.84
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	592.64	608.04	623.44	638.84	638.84

(Petitioner) 





**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	400/220 KV 315 MVA Transformer at Jeypore		
Element Description	400/220 KV 315 MVA Transformer at Jeypore		
Region	Eastern Region	DOC Date	Oct 1, 2002

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	11.06	11.65	12.25	12.88	13.59
Maintenance spares 15% of O&M Expenses	19.91	20.97	22.04	23.19	24.45
Receivables equivalent to 45 days of AFC	21.66	22.35	23.14	24.03	23.25
Total Working capital	52.63	54.97	57.43	60.10	61.29
Bank Rate as on 01.04.2019 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	6.26	6.54	6.83	7.15	7.29
Pro rata interest on working capital	6.26	6.54	6.83	7.15	7.29

(Petitioner)



Summary of issue involved in the petition		PART-III FORM- 15
1. Name of the Petitioner	Powergrid Corporation of India Ltd	
2. Petition Category	Transmission	
3. Tariff Period	2019-24 & 2024-29	
4. Name of the Project	Assets under 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region	
5. Investment Approval date	NA	
6. SCOD of the Project	NA	
7. Actual COD of the project	01.10.2002	
8. Whether entire scope is covered in the present petition.	Yes	
9. No. of Assets covered in instant petition	01 nos	
10. No. of Assets having time over run	NA	
11. Estimated Project Cost as per IA	Rs. 876.00 Lakh	
12. Is there any REC? if so, provide the date	NA	
13. Revised Estimated Project Cost (if any)	NA	
14. Completion cost for all the assets covered in the instant petition:	Rs. 709.82 Lakh	
15. No. of Assets covered in instant petition and having cost overrun.	NA	
16	<b>Prayer in brief</b>	
17	<b>Key details and any Specific issue involved</b>	
18	<b>Respondents</b>	
	<b>Name of Respondents</b>	
	1	BSPHCL
	2	JBVNL
	3	WBSEDCL
	4	DVC
	5	Power Dept., Govt. of Sikkim
	6	GRIDCO

(Petitioner) 

PART-III													
Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.													
Name of the Petitioner			Powergrid Corporation of India Ltd										
Tariff Period			2019-24										
Name of the Transmission Project			Assets under 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region										
COD of the Project (If entire scope of project is completed)			01.10.2002										
Rupees in lakh													
A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.													
S. No.	Asset No.	COD	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Cost							Capital Cost as on Cut-off Date	
			As per IA	As per RCE	As on COD/ as on 31.03.2019	2019-20	2020-21	2021-22	2022-23	2023-24	Capital Cost as on 31.03.2024		
			1	2	3	4	5	6	7	8	9		11= (5+6+7+8+9+10)
1	Asset-I	01.10.2002	876.00	NA	709.82	0	0	0	0	0	0	709.82	
<b>Total Capital Cost Claimed</b>			<b>876.00</b>	<b>0.00</b>	<b>709.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>709.82</b>	
B) Summary of Trued-Up Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.													
S. No.	Asset No.	Asset Name and its location					2019-20	2020-21	2021-22	2022-23	2023-24		
1	Asset-I	Assets under 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region					220.49	224.53	228.62	233.62	239.51		
<b>Total AFC for all the Assets</b>						<b>220.49</b>	<b>224.53</b>	<b>228.62</b>	<b>233.62</b>	<b>239.51</b>			
<b>Note:</b> 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.													
												(Petitioner)	




PART-III													
Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.													
Name of the Petitioner		Powergrid Corporation of India Ltd											
Tariff Period		2024-29											
Name of the Transmission Project		Assets under 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region											
COD of the Project (if entire scope of project is completed)		01.10.2002											
												Rupees in lakh	
<b>A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.</b>													
S. No.	Asset No.	COD	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Cost							Capital Cost as on Cut-off Date	
			As per IA	As per RCE	As on COD/ as on 31.03.2024	2024-25	2025-26	2026-27	2027-28	2028-29	Capital Cost considered as on 31.03.2029		
			1	2	3	4	5	6	7	8	9		11= (5+6+7+8+9+10)
1	Asset-I	01.10.2002	876.00	NA	709.82	0	0	0	0	0	0	709.82	
<b>Total Capital Cost Claimed</b>			<b>876.00</b>	<b>0.00</b>	<b>709.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>709.82</b>	
<b>B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.</b>													
S. No.	Asset No.	Asset Name and its location				2024-25	2025-26	2026-27	2027-28	2028-29			
1	Asset-I	Assets under 315 MVA Transformer at Jeypore Sub-station along with associated bays in Eastern Region				175.68	181.32	187.73	195.46	188.61			
<b>Total AFC for all the Assets</b>						<b>175.68</b>	<b>181.32</b>	<b>187.73</b>	<b>195.46</b>	<b>188.61</b>			
<b>Note: 1) The purpose of this form is to summarise the Capital cost &amp; AFC claimed for all the assets covered in the instant petition.</b>													
												(Petitioner)	




INDEX		PART-III
Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System (2019-24 & 2024-29 periods)		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	N.A.
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	N.A.
FORM- 4A	Statement of Capital cost	N.A.
FORM- 4B	Statement of Capital Works in Progress	N.A.
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	N.A.
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	N.A.
FORM-5A	Break-up of Construction/Supply/Service packages	N.A.
FORM-5B	Details of all the assets covered in the project	N.A.
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	N.A.
FORM- 7	Statement of Additional Capitalisation after COD	N.A.
FORM- 7A	Financing of Additional Capitalisation	N.A.
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	N.A.
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	N.A.
FORM-9	Details of Allocation of corporate loans to various transmission elements	N.A.
FORM-9A	Details of Project Specific Loans	N.A.
FORM-9B	Details of Foreign loans	N.A.
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	✓
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	N.A.
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	N.A.
FORM- 12A	Incidental Expenditure during Construction	N.A.
FORM- 12B	Calculation of IDC & Financing Charges	N.A.
FORM- 13	Details of Initial spares	N.A.
FORM- 14	Non-Tariff Income	N.A.
FORM- 15	Summary of issue involved in the petition	✓
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	✓
Other Information/ Documents		
S. No.	Information/Document	Tick
1	Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	N.A.
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	N.A.
3	Copies of relevant loan Agreements	N.A.
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	N.A.
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	N.A.
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	N.A.
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	N.A.
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021- 22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	N.A.
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	N.A.
10.	Any other relevant information. (Please specify)	N.A.
<b>Note 1:</b> Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.		

